

TRANSPORTATION

DRAFT DRAINAGE REPORT

Submittal to NYSDOT

May 2022

Hunts Point
Interstate Access Improvement
Contract 3
PIN X731.65
Bronx County, New York



PROJECT REPORT



Department of
Transportation



U.S. Department of Transportation
Federal Highway Administration

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1.0 INTRODUCTION

This drainage report outlines the existing combined sewer systems within the project limits and the proposed drainage system for Contract 3 (PIN X731.65) within the Hunts Point Interstate Access Improvement Project (PIN X731.55).

The purpose of the Project is to provide improved access between the Hunts Point Peninsula and the Sheridan and Bruckner Expressways for automobiles and trucks traveling to and from the commercial businesses located on the peninsula. In addition, the Project will address structural and operational deficiencies related to the existing infrastructure. The Project will be constructed in three contract segments. This drainage report covers the Contract 3 project area.

1.1 Project Location

As depicted in Figure 1 - Project Limits of Work – 1 and Figure 2 - Project Limits of Work – 3, the Project is located on and in the immediate vicinity of the Hunts Point Peninsula, South Bronx, New York. Work proposed for the Build Alternative is shown in Figure 2. Contracts 1 (PIN X731.63) and 2 (PIN X731.64) are currently in construction. This report addresses the Contract 3 area, which is scheduled to begin construction in January 2023.

The limits of Contract 3 of the Project are Bruckner Expressway and Bruckner Boulevard from the intersection of Barretto Street and Bruckner Expressway to the south to Whitlock Ave. in the north. The approximate boundaries of Contracts 1, 2 and 3 are shown in Figure 3 – Construction Contract Areas.

1.2 The Hunts Point Interstate Access Improvement Project

The project is being undertaken to improve vehicular access to the Hunts Point Food Distribution Center via the Bruckner and Sheridan Expressways by constructing a split interchange at Edgewater Road and Leggett Avenue (see Figure 3 – Construction Contract Areas). In Contract 3, two new ramps (Ramps SS and SN) at westbound and eastbound Bruckner Expressway will be constructed at Hunts Point Avenue, allowing traffic to continue along Bruckner Expressway. The Expressway will be reconstructed between Hunts Point Avenue and the bridges over Amtrak.

1.3 Contract 3 Proposed Work

Contract 3 includes the following proposed work:

- Removal of Existing Viaduct and Ramps from Hunts Point Ave to Sheridan Interchange
- Proposed Ramp SS
- Proposed Ramp SN
- Reconstruction of Bryant Avenue Pedestrian Bridge
- Rehabilitation of Bruckner Expressway from Barretto Street to Hoe Avenue
- Reconstruction of Bruckner Expressway from Hoe Avenue to Longfellow Avenue
- Pedestrian Improvements at Intersections including bulb-outs, shared use path extension
- At grade improvements from Barretto Street to Whitlock Ave. including intersection safety improvements at Hunts Point Avenue, pavement rehabilitation, and shared use path extension

2.0 EXISTING DRAINAGE SYSTEMS

The Contract 3 Project has multiple drainage systems (shown in Appendix A) based upon review of New York City Department of Environmental Protection (NYCDEP) and New York State Department of Transportation (NYSDOT) existing sanitary and storm sewer records and the results of field reconnaissance. The Project is located within NYCDEP's Combined Sewer System (CSS). The tributary watershed areas within the Contract 3 Project are located on the Bruckner Expressway viaduct and the Bruckner Boulevard at-grade roadways.

The existing storm sewer system serving the elevated Bruckner Expressway viaduct includes highway scuppers, above-grade piping, downspouts, catch basins, manholes and sewers that collect stormwater from the NYSDOT-owned roadways and structures. All storm water systems for this Project are tributary to the Hunts Point Treatment Facility (WWTF) that has a 200 MGD (million gallon per day) capacity. There are no CSO outfalls that discharge to open water within the limits of Contract 3 work area. See Figure 4 – Combined Sewer Outfalls for details.

The Project has two distinct tributary drainage areas created by the highpoint in the elevated mainline of Bruckner Expressway viaduct and the Boulevard. Generally, stormwater from the NYSDOT drainage systems east of Hunts Point Avenue flow to a NYCDEP CSS within Bruckner Boulevard westbound into a 9'-9" x 11'-0" combined sewer adjacent to Longfellow-Whitlock Avenues that eventually flows to the Hunts Point WWTF. Stormwater from the NYSDOT drainage systems west of Hunts Point Avenue flow to a NYSDOT CSS in Bruckner Boulevard eastbound and westbound that flow into the Contract 2 area and eventually route to the Hunt's Point WWTF.

The drainage systems which are analyzed and proposed to be modified within these project boundaries are owned and/or maintained by either the NYCDEP or the NYSDOT. See Appendix A for the NYCDEP Sewer Mapping schematics within the Contract 3 Area. See Appendix B for NYCDEP As-Built within the Contract 3 Area. See Appendix C for preliminary drainage plans within the Contract 3 area.

2.1 Drainage Systems Flowing West from Hunts Point Avenue

The Bruckner Expressway is a viaduct above Bruckner Boulevard within the Contract 3 area from Hunts Point Avenue to Barretto Street. Stormwater from the Bruckner Expressway viaduct west of Hunts Point Avenue flows west and is collected via scuppers and above grade piping systems to downspouts that discharge flow to catch basins within Bruckner Boulevard. These catch basins flow to a NYSDOT storm sewer system located beneath Bruckner Boulevard Eastbound. Bruckner Boulevard westbound contains NYCDEP combined sewers. Both NYSDOT and NYCDEP drainage systems connect to the NYCDEP CSS that conveys flow to the Hunts Point WWTF.

Stormwater from the Bruckner Boulevard Expressway Viaduct and Bruckner Boulevard Westbound is collected into a NYSDOT system in Bruckner Boulevard Eastbound via a series of catch basins and sewers that flow west to Longfellow Avenue. At Longfellow Avenue, the NYSDOT system ties into the NYCDEP system that conveys flow to the Hunts Point WWTF.

Stormwater from Bruckner Boulevard Westbound is collected into a NYCDEP 15 in diameter combined sewer that flows west to Barretto Street and then north to Southern Boulevard and eventually combines with other flow that crosses Bruckner Boulevard at Longfellow Avenue at the same point where the NYSDOT system discharges into the NYCDEP sewer system. All flow from this location is conveyed to the Hunts Point WWTF.

2.2 Drainage Systems Flowing East from Hunts Point Avenue

Stormwater from the Bruckner Expressway viaduct east of Hunts Point Avenue flows east to the 9'-9" x 11'-0" sewer located just east of the MTA subway portal along the east side of Whitlock Avenue. There are two existing combined sewer systems located in Bruckner Boulevard Westbound that were constructed at the same time that the subway was constructed in the early 1900's. See Appendix E for details. The NYCDEP south sewer system has one known existing connection to the existing building within Monsignor Del Valle Square Park. See Appendix A for the NYCDEP Sewer Mapping schematics between Monsignor Del Valle Square Park and Whitlock Avenue. The NYSDOT drainage system has five (5) existing points of connection that discharge to NYCDEP's existing south sewer system in Bruckner Boulevard Westbound.

NYCDEP's existing sewer system on the north side of the MTA tunnel collects stormwater from E163rd Street, Hoe Avenue, Faile Street, Bryant Avenue, Whitlock Avenue and Longfellow Avenue. The NYCDEP north sewer system has a possible site connection servicing the existing back-of-house bathrooms in the MTA Hunts Point Subway Station. See Appendix A for the NYCDEP Sewer Mapping schematics between Monsignor Del Valle Square Park and Whitlock Avenue.

3.0 PROPOSED DRAINAGE SYSTEMS

3.1 New Development and Increased Pervious Surface

The project will not increase the total area tributary to the HP WWTF as shown in Exhibits DRE-1 to DRE-3. The proposed NYSDOT drainage system will be designed so that the 5 existing points of connection from beneath Br. Expwy that discharge to the NYCDEP existing sewer system in WB Bruckner Boulevard will be abandoned, and will not connect to the NYCDEP system until it reaches the 11'x9'-9" arch brick sewer on Whitlock Ave. There will be no development within the project area that is considered new development.

Additional pervious landscaping has been proposed that will decrease the overall flow of the area and limit the amount flowing into the proposed NYSDOT drainage system. There will be increases in pervious areas within the project limits via green spaces on the median between Barretto Street and Hunts Point Ave. There are additional green spaces on the west sidewalk along WB Bruckner Boulevard, and the east sidewalk along EB Bruckner Boulevard. Please see Appendix J—Changes in Pervious and Impervious Surfaces for details on new pervious surfaces within the project limits.

3.2 Bruckner Expressway Drainage System – Proposed

3.2.1 Bruckner Expressway West of Hunts Point Ave.

Please see Exhibits DRE-1, DRE-2, and DRE-3 and Appendix C - Contract 3 – Preliminary Drainage Plans.

Stormwater on Bruckner Expressway above Bruckner Boulevard will flow along the shoulder and median and be collected by scuppers. The proposed scuppers on the Expressway will route flow to above grade piping and downspouts to discharge to catch basins on Bruckner Boulevard.

3.2.2 Bruckner Expressway East of Hunts Point Ave.

Please see Exhibits DRE-1, DRE-2, and DRE-3 and Appendix C - Contract 3 – Preliminary Drainage Plans.

Stormwater along the proposed Bruckner Expressway viaduct and ramps from Sheridan Boulevard east of Hunts Point Ave will drain through proposed scuppers, above grade piping and downspouts to proposed catch basins along Bruckner Boulevard. The proposed catch basins in the fill area of Bruckner Expressway will be connected to the proposed NYSDOT system within EB Bruckner Boulevard. See Exhibits DRE-1, DRE-2, and DRE-3 and Appendix C - Contract 3 – Preliminary Drainage Plans for layouts and profiles of

the proposed systems. There will be no proposed connection to the existing combined NYCDEP sewer on WB Bruckner Boulevard.

3.3 Bruckner Boulevard Drainage System – Proposed

Catch basins are proposed to be relocated upstream of proposed ADA pedestrian ramps and other pedestrian improvements. Catch basins are relocated for curb line adjustments at medians and for the removal of existing medians. Whenever possible, replacement catch basins should be reconnected to the manhole of the catch basins they are replacing to avoid altering existing drainage patterns. As needed, where there are changes to concrete islands and pedestrian curb bump-outs, catch basins and chute connections for the existing NYCDEP sewer system will be reset. This will not change the existing drainage patterns, other than making stormwater collection more effective.

3.3.1 At-Grade Bruckner Boulevard West of Hunts Point Ave.

Stormwater on WB Bruckner Boulevard west of Hunts Point Ave. will flow into catch basins that will connect to the existing drainage system. Please see Appendix C - Contract 3 – Preliminary Drainage Plans for details. The existing and proposed drainage areas on WB Bruckner Expressway in this area are a combination of pervious and impervious areas.

Stormwater on EB Bruckner Boulevard west of Hunts Point Ave. will flow into existing and proposed catch basins that will connect to the existing drainage system. Stormwater conveyed from downspouts from the Bruckner Expressway above will flow to the catch basins along EB Bruckner Boulevard. Please see Appendix C - Contract 3 – Preliminary Drainage Plans for details. The drainage plans show the flow along EB Bruckner Boulevard.

The existing tributary drainage area for Bruckner Boulevard west of Hunts Point Ave. is 3.53 acres. The proposed tributary drainage area for Bruckner Boulevard west of Hunts Point Ave. is 3.53 acres. There is no change in total tributary drainage area contributing to the Hunts Point WWTF within the Contract 3 project area south of Hunts Point Ave. See Exhibit DRE-1 for details.

3.3.2 At-Grade Westbound Bruckner Boulevard East of Hunts Point Ave.

Drainage along WB Bruckner Boulevard east of Hunts Point Ave. is provided by catch basins and existing combined sewers running within Bruckner Boulevard or running across Bruckner Boulevard at intersecting streets.

The existing Bruckner Boulevard tributary drainage area east of Hunts Point Ave. is 10.78 acres. The proposed Bruckner Boulevard tributary drainage area east of Hunts Point Ave. is 10.78 acres. There is no change in total tributary drainage area contributing to the Hunts Point WWTF within the Contract 3 WB Bruckner Boulevard project area east of Hunts Point Ave. See Exhibit DRE-2 for details.

3.3.3 At-Grade Eastbound Bruckner Boulevard East of Hunts Point Ave.

There is a proposed NYSDOT drainage sewer on EB Bruckner Expressway east of Hunts Point Ave. The proposed drainage plans show a system of catch basins and manholes on the EB Bruckner Boulevard flowing through 12-30 inch pipes. Stormwater from these proposed catch basin/manhole networks will convey stormwater through the new NYSDOT sewer system, which will flow into the existing 11'x9-9" brick arch sewer that runs beneath Whitlock Ave. Please see Appendix C - Contract 3 – Preliminary Drainage Plans for details. The new drainage system will encompass all the flow on Bruckner Expressway east of Hunts Point Ave to the bridge over the Amtrak train tracks, as well as any flow on EB Bruckner Boulevard. The existing sewer connections to the existing NYCDEP combined sewer on the east side of WB Bruckner Boulevard will be abandoned. See Exhibit DRE-3 for details. 4.38 acres will flow into the existing NYCDEP CSS and 6.4 acres will flow into the proposed NYSDOT sewer system.

Stormwater along the proposed sidewalk area along EB Bruckner Boulevard east of Hunts Point Ave will flow into catch basins that will connect to the proposed NYSDOT drainage system. Please see Appendix C - Contract 3 – Preliminary Drainage Plans for details. The existing drainage areas on the EB Bruckner Boulevard sidewalk in this area are impervious. The proposed drainage areas on the EB Bruckner Boulevard sidewalk in this area are a combination of pervious and impervious areas. See Appendix J – Roadway Plans for details.

4.0 ANALYSIS OF EXISTING AND PROPOSED DRAINAGE NETWORKS

All stormwater collection systems within the Contract 3 project area connect to the NYCDEP CSS. The drainage systems will be analyzed and designed in greater detail by the Design-Builders using the Rational Method using Bentley Systems Storm and Sanitary modeling, or another accepted method later in the design process. Flow control methods will be evaluated to prevent any increases in allowable flow to the NYCDEP sewer system. The storm drainage system for the expressway shall be designed for the 10-year storm. The low point drainage in the mainline shall be analyzed for the 50-year storm for the depressed condition.

The existing NYCDEP sewer on WB Bruckner Boulevard will remain and not be impacted during construction. If any piece of the existing NYCDEP sewer system needs to be replaced during construction, it will be replaced in accordance with NYCDEP requirements.

The proposed NYSDOT sewer system on EB Bruckner Boulevard will follow NYSDOT requirements.

Tributary Drainage Area West of Hunts Point Ave	
Existing:	3.53 acres
Proposed:	3.53 acres

Tributary Drainage Area East of Hunts Point Ave	
Existing:	10.78 acres
Proposed:	10.78 acres

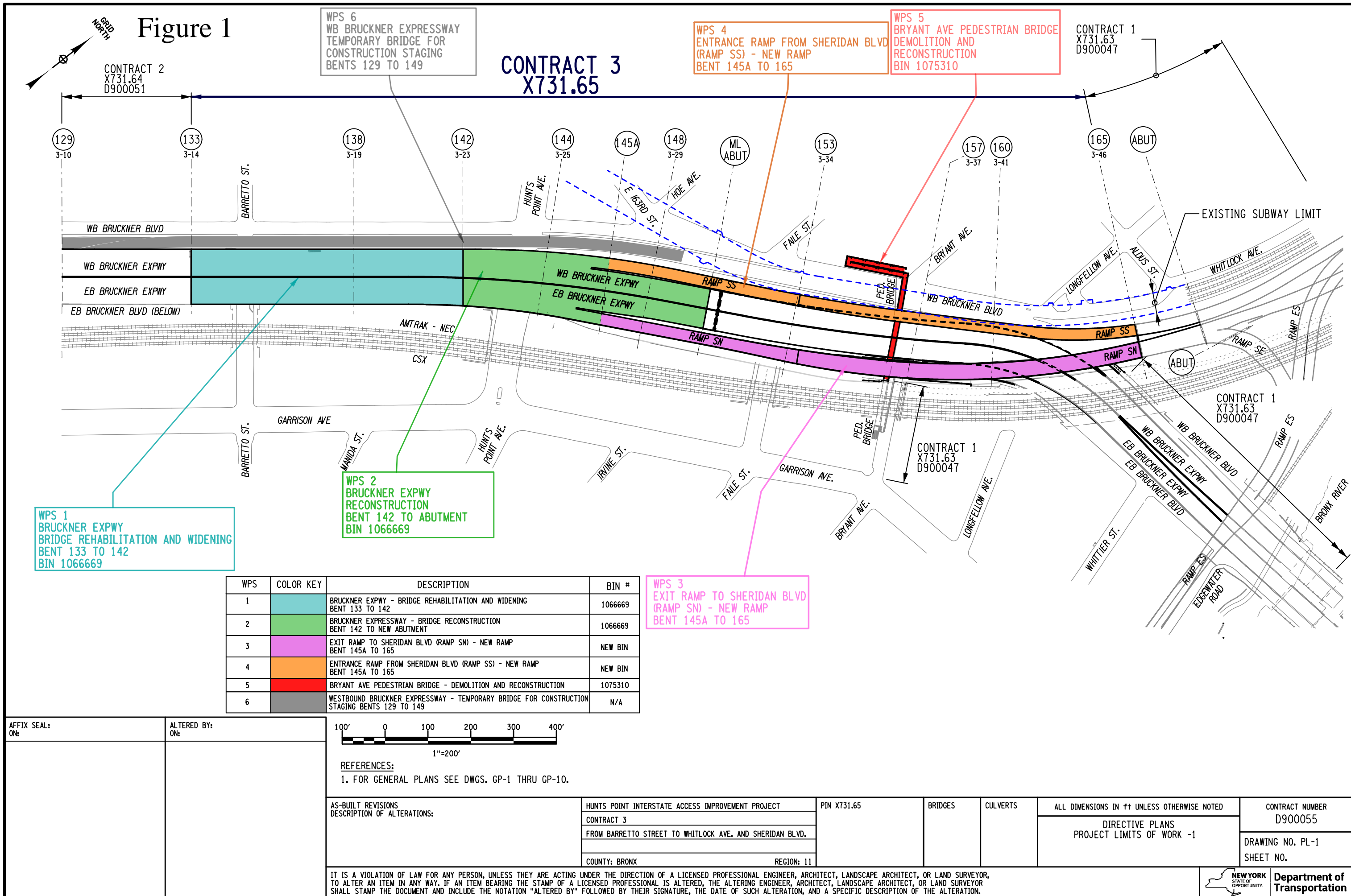
Total Tributary Drainage Area of Project	
Existing:	14.31 acres
Proposed:	14.31 acres

5.0 CONCLUSIONS AND RECOMMENDATIONS

The following conclusions and recommendations are provided for the stormwater drainage design within the Contract 3 project limits:

- The existing NYCDEP sewer system on WB Bruckner Boulevard will remain and not be impacted.
- The proposed NYSDOT drainage system on the viaduct structure and on EB Bruckner Boulevard will discharge stormwater into new sewers that convey the stormwater to the 9'-9" x 11'-0" NYCDEP sewer at the existing point of connection.
- The existing tributary drainage area for this project is 14.31 acres. The proposed tributary area will be 14.31 acres. There will be no increase in the tributary area draining to the Hunts Point WWTF as a result of this project.
- There will be an increase in the pervious area of the project due to the additional green spaces along Bruckner Boulevard.

Figures



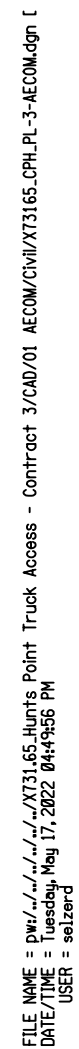


Figure 3

PIN X731.55
Hunts Point Interstate Access Improvement

LEGEND

<div></div>	Contract 1 PIN X731.63	3 years from 12/2019 to 12/2022
<div></div>	Contract 2 PIN X731.64	3 years from 3/2021 to 3/2024
<div></div>	Contract 3 PIN X731.65	2.5 years from 12/2022 to 8/2025



Combined Sewer Outfalls

nyscsoslink.kmz

Figure 4

Legend

- Brother Island
- WPCP
- WPCP



Google earth

© 2018 Google

South Brother Island

NYCDEP-Hunt's Point WPCP

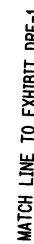
NYCDEP-Hunt's Point WPCP

Exhibits





EXISTING DRAINAGE AREA



PROPOSED DRAINAGE AREA

AFFIX SEAL: ON: _____	ALTERED BY: _____ ON: _____
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Department of
Transportation

20 0 75 150 225 8

1" = 150'

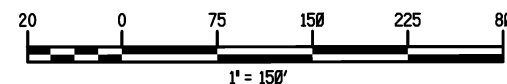




PROPOSED TRIBUTARY DRAINAGE AREA TO
PROPOSED NYSDOT SEWER SYSTEM FLOWING INTO
EXISTING 11" X 9'-9" ARCH BRICK SEWER
AT WHITLOCK AVE. PIPE CONNECTION
TOTAL AREA: 6.4 AC.

MATCH LINE TO EXHIBIT DRE-1

LEGEND

- SURFACE WATER FLOW
- AREA FLOWING INTO EXISTING NYCDEP CSO
- AREA FLOWING INTO PROPOSED NYSDOT SEWER SYSTEM



AFFIX SEAL: ON: _____	ALTERED BY: _____ ON: _____	<div style="text-align: right; margin-bottom: 10px;">  </div> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="width: 35%; vertical-align: top;"> AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS: _____ _____ _____ _____ _____ </td> <td style="width: 20%; vertical-align: top;"> HUNTS POINT INTERSTATE ACCESS IMPROVEMENT PROJECT CONTRACT 3 FROM BARRETTO STREET TO WHITLOCK AVE. AND SHERIDAN BLVD. _____ COUNTY: BRONX </td> <td style="width: 10%; vertical-align: top;"> PIN X731.65 </td> <td style="width: 10%; vertical-align: top;"> BRIDGES </td> <td style="width: 10%; vertical-align: top;"> CULVERTS </td> <td style="width: 20%; vertical-align: top;"> ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED EXHIBIT DRE-3 NYCDEP SEWER AND NYSDOT DRAINAGE </td> <td style="width: 15%; vertical-align: top;"> CONTRACT NUMBER D900055 DRAWING NO. DRE-3 SHEET NO. </td> </tr> </table>										AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS: _____ _____ _____ _____ _____	HUNTS POINT INTERSTATE ACCESS IMPROVEMENT PROJECT CONTRACT 3 FROM BARRETTO STREET TO WHITLOCK AVE. AND SHERIDAN BLVD. _____ COUNTY: BRONX	PIN X731.65	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED EXHIBIT DRE-3 NYCDEP SEWER AND NYSDOT DRAINAGE	CONTRACT NUMBER D900055 DRAWING NO. DRE-3 SHEET NO.
AS-BUILT REVISIONS DESCRIPTION OF ALTERATIONS: _____ _____ _____ _____ _____	HUNTS POINT INTERSTATE ACCESS IMPROVEMENT PROJECT CONTRACT 3 FROM BARRETTO STREET TO WHITLOCK AVE. AND SHERIDAN BLVD. _____ COUNTY: BRONX	PIN X731.65	BRIDGES	CULVERTS	ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED EXHIBIT DRE-3 NYCDEP SEWER AND NYSDOT DRAINAGE	CONTRACT NUMBER D900055 DRAWING NO. DRE-3 SHEET NO.												
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Appendices

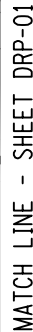
Appendix A – NYCDEP Sewer Schematic

(REDACTED)

Appendix B – NYCDEP As-Builts

Appendix C – Contract 3 – Preliminary Drainage Plans

(REDACTED)



CONTRACT NUMBER D900055
DRAWING NO. DRP-01 SHEET NO.

Department of Transportation



AS-BUILT REVISIONS
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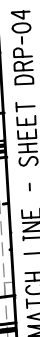
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D900055

DRAWING NO. DRP-02
SHEET NO.

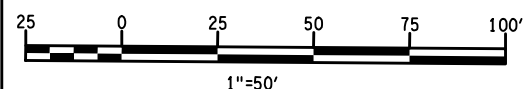


NEW YORK
STATE OF
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Department of
Transportation



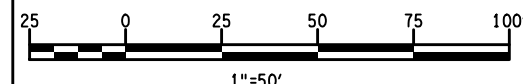
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Department of
Transportation

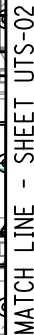
- SURFACE WATER FLOW ON BRUCKNER EXPRESSWAY (STRUCTURE)
- NEW BENT NUMBER
- OLD BENT NUMBER
- APPROXIMATE LOCATION OF EXISTING IRT SUBWAY

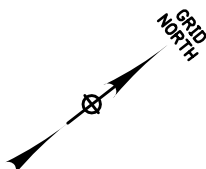


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STATE OF
OPPORTUNITY.

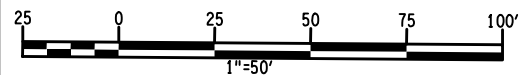
Department of
Transportation



Department of Transportation



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AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

UTILITY LEGEND:

_____ E _____ - ELECTRIC
 _____ FO _____ - FIBER OPTIC
 _____ F _____ - FIRE DEPT. COMMUNICATIONS
 _____ G _____ - GAS
 _____ J/T _____ - TELEPHONE
 _____ SA _____ - SANITARY OR COMBINED SEWER
 ST _____ ST _____ ST _____ - STORM SEWER
 _____ W _____ - WATER

LEGEND:
REFER TO ROADWAY PLANS FOR ADDITIONAL FEATURES
(E.G. LANDSCAPE AREAS AND BICYCLE PATHS)

43
2-1

- NEW BENT NUMBER
- OLD BENT NUMBER
- PROPOSED CONCRETE
SIDEWALK / MEDIAN
- PROPOSED ASPHALT
MEDIAN

- SURFACE WATER FLOW AT ROADWAY GRADE
- PROPOSED NEW FENCE
- PROPOSED CONCRETE BARRIER
- CLEARING, GRUBBING AND PLACE GRAVEL
- PROPOSED MILLING AND RESURFACING

- APPROXIMATE LOCATION
OF EXISTING IRT SUBWAY

- PROPOSED PAVEMENT RECONSTRUCTION

- PROPOSED
FILL AREA

CONTRACT NUMBER
D900055



DRAWING NO. UTS-03
SHEET NO.

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ALTERED BY:
ON:

_____ E _____ - ELECTRIC
 _____ FO _____ - FIBER OPTIC
 _____ F _____ - FIRE DEPT. COMMUNICATIONS
 _____ G _____ - GAS
 _____ J _____ - TELEPHONE
 _____ SA _____ - SANITARY OR COMBINED SEWER
 ST _____ ST _____ ST _____ - STORM SEWER
 _____ W _____ - WATER

- (43)
- 2-1
- NEW BENT NUMBER
- OLD BENT NUMBER
- 
- PROPOSED CONCRETE
SIDEWALK / MEDIAN
- 
- PROPOSED ASPHALT
MEDIAN

- PROPOSED NEW FENCE
- PROPOSED CONCRETE BARRIER
- CLEARING, GRUBBING AND PLACE GRAVEL
- PROPOSED MILLING AND RESURFACING
- SURFACE WATER FLOW AT ROADWAY GRADE
- APPROXIMATE LOCATION OF EXISTING IRT SUBWAY
- PROPOSED PAVEMENT RECONSTRUCTION
- PROPOSED APPROACH SLAB

HUNTS POINT INTERSTATE ACCESS IMPROVEMENT PROJECT	
CONTRACT 3	
FROM BARRETTO STREET TO WHITLOCK AVE. AND SHERIDAN BLVD.	
COUNTY: BRONX	REGION: 11


CONTRACT NUMBER
D900055

DRAWING NO. UTS-04
SHEET NO.

 **NEW YORK**
STATE OF
OPPORTUNITY. **Department of
Transportation**





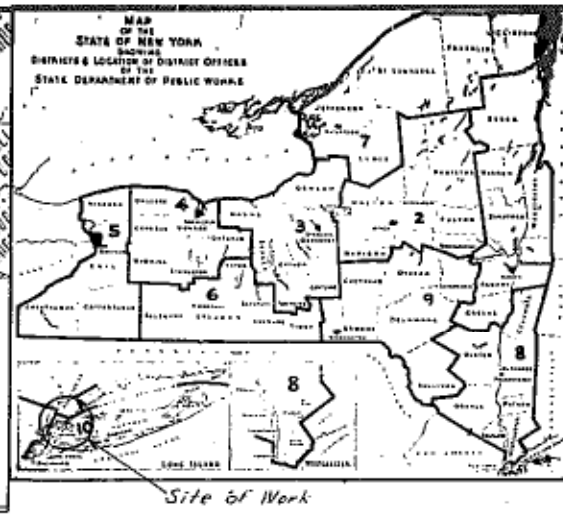
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	FROM BARRETTO STREET TO WHITLOCK AVE. AND SHERIDAN BLVD.					DRAWING NO. UTR-01	
	COUNTY: BRONX REGION: 11						SHEET NO.
IT IS A VIOLATION OF LAW FOR ANY PERSON, UNLESS THEY ARE ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE STAMP OF A LICENSED PROFESSIONAL IS ALTERED, THE ALTERING ENGINEER, ARCHITECT, LANDSCAPE ARCHITECT, OR LAND SURVEYOR SHALL STAMP THE DOCUMENT AND INCLUDE THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE, THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.						 NEW YORK STATE OF OPPORTUNITY.	Department of Transportation

Appendix D – As-Built Records for Contract BE 60-1



LOCATION MAP

Scale in Feet (Approximate)



Site of Work



STATE OF NEW YORK
DEPARTMENT OF PUBLIC WORKS
DIVISION OF CONSTRUCTION

PLANS FOR CONSTRUCTING WITH FEDERAL AID A PORTION OF THE
INTERSTATE ROUTE CONNECTION 516 & 517, BRUCKNER EXPRESSWAY
(Section 1 — Contract 3), (Lafayette Ave. — Lowell St.)
From Station 82+28.4 to Station 127+71.2, a length of 0.83 mile in the City of New York

245 SHEETS

F.A. PROJECT No. 1-278-1 (48)

CONTRACT No. FIB 60-1

BRONX COUNTY

CONTRACT NO. 3					
FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	1-278-1(48)		18	245
GRADING, DRAINAGE, STRUCTURES AND PAVING FROM LAFAYETTE AVE. TO LOWELL ST.					

BRUCKNER EXPRESSWAY
SECTION 1

TYPE OF CONSTRUCTION

Reinf. Concrete Slab Roadway (Main Line) 0.76 Mile
Colored Cement Concrete Pavement (M.L.) 0.07 Mile

This Contract also contains 1.73 miles of Access
Ramps, Surface Roads and Intersections of which
0.56 mile is Cem. Conc. Pavement and 1.17 miles
is Asphalt Concrete Pavement

Including

Structural Steel Viaduct, 57 Spans, Total Length 1118'
Bryant Ave. Foot Bridge, Welded Girder & W. F. Beam
Bridge, 4 Spans, 1 @ 53' 11", 1 @ 124' 4",
1 @ 11' 7", 1 @ 110' 7" c. to c. bearings

STANDARD STRUCTURE SHEETS

46-4, 51-21, 54-18P, 54-45, 56-1, 56-43R, 58-1, 58-3R2,
58-17R1, 58-45A, 58-60, 59-7, 59-11CR1, 59-11R1,
59-11WR1, 59-19, 59-48A, 59-48B, 59-48D1, 59-48D2,
59-48R2, 60-3A, 60-48C, 60-44, 60-48E, 60-48F

All work contemplated under this contract to be covered
by and in conformity with the specifications adopted
January 2, 1957, except as modified on these plans and
in the Itemized Proposal.

DESIGN TRAFFIC DATA
DESIGN CLASS 1U
ESTIMATED 1975 TRAFFIC D.H. 4000
A.A.D.T. 40000

SOURCE AND TEST NUMBER OF CEMENT

Hudson Cement Corp., Kingston, N.Y. 60-C-321, 322, 361, 362, 345, 382, 400,
407, 422, 445, 435, 458, 459, 456, 469, 470, 460, 9, 472
61-C-23, 27, 37, 53, 69, 80, 95, 90, 88, 106, 119, 122, 194, 217, 168, 36, 226, 155,
266, 16, 237, 249, 284, 255, 295, 317, 326, 341, 241, 357, 361, 376, 380,
384, 387, 391, 395, 295,
62-C-2, 3, 32, 33, 46, 47, 59, 63, 62, 79, 81
North American, Alsen, N.Y. 60-C-191, 344, 371, 233, 471
Lone Star, Hudson, N.Y. 60-C-140, 478, 61-C-338, 269, 377, 62-C-83
Pioneer, Brodhead, Pa. 60-C-331, 486, 61-C-209, 62-C-100, 128
Hercules, Stockertown, Pa. 60-C-286
Nazareth, Nazareth, Pa. 60-C-414, 478, 61-C-280
Lehigh, Hudson, N.Y. 60-C-476
Natural Century-Rosendale, N.Y. 60-C-306, 61-C-127, 146, 318,
334, 367, 62-C-61, 63

DATE OF CONTRACT JULY 27, 1960	TYPE	MEAS. LENGTH L.F.	LENGTH IN MILES	THICKNESS OF PAVEMENT	WIDTH		SQ. FT. OF PAVEMENT	SQ. YDS. OF PAVEMENT	CU. YDS. OF PAVEMENT	SOURCE & TEST NUMBER MATERIALS			CONTRACTORS SLATTERY CONTRACTING Co.
					METAL	RC/SWC				SAND	STONE	CEMENT	
DATE OF STARTING CONTRACT* AUG. 1, 1960	CEMENT CONCRETE PAVEMENT	350.38	0.076	9"	33' 0" Variable	34' 0" Variable	32,950	3,661	915	COLONIAL SAND 57-C-39, 60-C-10 GRAVEL Co. 60-C-14, 61-C-6, 61-C-7, 62-C-1, 62-C-2, 62-C-3, 62-C-4, 62-C-5, 62-C-6, 62-C-7, 62-C-8, 62-C-9, 62-C-10, 62-C-11, 62-C-12, 62-C-13, 62-C-14, 62-C-15, 62-C-16, 62-C-17, 62-C-18, 62-C-19, 62-C-20, 62-C-21, 62-C-22, 62-C-23, 62-C-24, 62-C-25, 62-C-26, 62-C-27, 62-C-28, 62-C-29, 62-C-30, 62-C-31, 62-C-32, 62-C-33, 62-C-34, 62-C-35, 62-C-36, 62-C-37, 62-C-38, 62-C-39, 62-C-40, 62-C-41, 62-C-42, 62-C-43, 62-C-44, 62-C-45, 62-C-46, 62-C-47, 62-C-48, 62-C-49, 62-C-50, 62-C-51, 62-C-52, 62-C-53, 62-C-54, 62-C-55, 62-C-56, 62-C-57, 62-C-58, 62-C-59, 62-C-60, 62-C-61, 62-C-62, 62-C-63, 62-C-64, 62-C-65, 62-C-66, 62-C-67, 62-C-68, 62-C-69, 62-C-70, 62-C-71, 62-C-72, 62-C-73, 62-C-74, 62-C-75, 62-C-76, 62-C-77, 62-C-78, 62-C-79, 62-C-80, 62-C-81, 62-C-82, 62-C-83, 62-C-84, 62-C-85, 62-C-86, 62-C-87, 62-C-88, 62-C-89, 62-C-90, 62-C-91, 62-C-92, 62-C-93, 62-C-94, 62-C-95, 62-C-96, 62-C-97, 62-C-98, 62-C-99, 62-C-100, 62-C-101, 62-C-102, 62-C-103, 62-C-104, 62-C-105, 62-C-106, 62-C-107, 62-C-108, 62-C-109, 62-C-110, 62-C-111, 62-C-112, 62-C-113, 62-C-114, 62-C-115, 62-C-116, 62-C-117, 62-C-118, 62-C-119, 62-C-120, 62-C-121, 62-C-122, 62-C-123, 62-C-124, 62-C-125, 62-C-126, 62-C-127, 62-C-128, 62-C-129, 62-C-130, 62-C-131, 62-C-132, 62-C-133, 62-C-134, 62-C-135, 62-C-136, 62-C-137, 62-C-138, 62-C-139, 62-C-140, 62-C-141, 62-C-142, 62-C-143, 62-C-144, 62-C-145, 62-C-146, 62-C-147, 62-C-148, 62-C-149, 62-C-150, 62-C-151, 62-C-152, 62-C-153, 62-C-154, 62-C-155, 62-C-156, 62-C-157, 62-C-158, 62-C-159, 62-C-160, 62-C-161, 62-C-162, 62-C-163, 62-C-164, 62-C-165, 62-C-166, 62-C-167, 62-C-168, 62-C-169, 62-C-170, 62-C-171, 62-C-172, 62-C-173, 62-C-174, 62-C-175, 62-C-176, 62-C-177, 62-C-178, 62-C-179, 62-C-180, 62-C-181, 62-C-182, 62-C-183, 62-C-184, 62-C-185, 62-C-186, 62-C-187, 62-C-188, 62-C-189, 62-C-190, 62-C-191, 62-C-192, 62-C-193, 62-C-194, 62-C-195, 62-C-196, 62-C-197, 62-C-198, 62-C-199, 62-C-200, 62-C-201, 62-C-202, 62-C-203, 62-C-204, 62-C-205, 62-C-206, 62-C-207, 62-C-208, 62-C-209, 62-C-210, 62-C-211, 62-C-212, 62-C-213, 62-C-214, 62-C-215, 62-C-216, 62-C-217, 62-C-218, 62-C-219, 62-C-220, 62-C-221, 62-C-222, 62-C-223, 62-C-224, 62-C-225, 62-C-226, 62-C-227, 62-C-228, 62-C-229, 62-C-230, 62-C-231, 62-C-232, 62-C-233, 62-C-234, 62-C-235, 62-C-236, 62-C-237, 62-C-238, 62-C-239, 62-C-240, 62-C-241, 62-C-242, 62-C-243, 62-C-244, 62-C-245, 62-C-246, 62-C-247, 62-C-248, 62-C-249, 62-C-250, 62-C-251, 62-C-252, 62-C-253, 62-C-254, 62-C-255, 62-C-256, 62-C-257, 62-C-258, 62-C-259, 62-C-260, 62-C-261, 62-C-262, 62-C-263, 62-C-264, 62-C-265, 62-C-266, 62-C-267, 62-C-268, 62-C-269, 62-C-270, 62-C-271, 62-C-272, 62-C-273, 62-C-274, 62-C-275, 62-C-276, 62-C-277, 62-C-278, 62-C-279, 62-C-280, 62-C-281, 62-C-282, 62-C-283, 62-C-284, 62-C-285, 62-C-286, 62-C-287, 62-C-288, 62-C-289, 62-C-290, 62-C-291, 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62-C-992, 62-C-993, 62-C-994, 62-C-995, 62-C-996, 62-C-997, 62-C-998, 62-C-999, 62-C-1000	END IN CHARGE <i>John H. H. H.</i> HOWARD, REED & TAMMERSBERG		
DATE OF COMPLETION	CEMENT CONCRETE PAVEMENT SURFACE CON												

SPECIAL NOTE:

Wherever Item 29R appears on the plans,
Item 29AS shall apply.

Wherever Item 10RX appears on the plans,
Item 10RY shall apply.

PREPARED AND RECOMMENDED
BY *Howard, Needles, Tammen & Bergendoff*
HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
NEW YORK KANSAS CITY

APPROVED
ROBERT MOSES, March 31, 1960
CONSTRUCTION COORDINATOR, CITY OF NEW YORK

"RELOCATIONS OR CHANGES TO THE CITY OWNED UTILITIES
SHOWN IN THESE PLANS DO NOT INVOLVE A MA

FED. RD. DIV. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	2-278-1(48)	2	245

GRADING, DRAINAGE, STRUCTURES AND PAVING
FROM LAFAYETTE AVE. TO LOWELL ST.

THE FOLLOWING NEW YORK CITY STANDARD DRAWINGS APPLICABLE TO THE WORK UNDER THIS CONTRACT ARE AVAILABLE TO THE CONTRACTOR AT THE DISTRICT NO. 10 OFFICE OF THE NEW YORK STATE DEPARTMENT OF PUBLIC WORKS AT BABYLON, L.I., N.Y. :-

DRAWING NO.	DESCRIPTION
10221-Z	DEPT. OF WATER SUPPLY, GAS & ELECTRICITY
10222 thru 10224-Z, 10224A-Z	CAST IRON PIPE SIZES & STANDARD HUB & SPIGOT BEAD
10225-Z THRU 10228-Z	CAST IRON REDUCERS
10229-Z	CAST IRON BENDS (7 1/2", 22 1/2", 45", 90")
10230-Z	CAST IRON OFFSETS
10231-Z	CAST IRON 1-WAYS (4" to 20")
10232-Z	CAST IRON 4-WAYS (4" to 20")
10233-Z	CAST IRON BLOW-OFFS & AIR COCKS
10234-Z	CAST IRON SLEEVES
10235-Z	CAST IRON CAPS
10236-Z	CAST IRON PLUGS, LUGS
10237-Z, 10238-Z	BANDS & RODS FOR C. I. MAINS
10239A-Z	VALVE SHIRT BOX
10240-Z	HYDRANT VALVE BOX, CAST IRON
10241-Z	SPIGOT BEAD FOR CUT PIPE
10242-Z	HYDRANT EXTENSION PIECES
11214-Z	FOUNDATIONS FOR VALVE BOXES
11576-Z	HYDRANT BANDS
18077-Z	CAST IRON LINE VALVE CONNECTION
D-10339-Z	HYDRANT DRAIN BASE
22809-Z	CLEARANCES AROUND HYDRANTS
23976-Z	CAST IRON DOUBLE HUB
24270-Z	TYPICAL CONSTRUCTION FOR SUPPORTING C. I. WATER MAINS
24926-Y	CAST IRON SCREW PLUGS
25418-Z	QUANTITY OF LEAD & YARN FOR VARIOUS SIZES OF C. I. PIPE JOINTS.
27934-Z	HYDRANT FENDER ISLAND
29945-Z	STANDARD METHODS FOR HYDRANT DRAINAGE
31050-Z	RODDING SPECIAL CASTINGS
33672-Z	FIELD JOINTS FOR STEEL WATER MAINS
35310-Z	IDENTIFICATION PLATE DETAILS
D-2851	METHOD OF MOUNTING FUSE CUT-OUT IN SHAFT OF LAMPPOST
D-3754	SIDEWALK TYPE CONCRETE BOX
E-3179	TYPICAL FOUNDATION FOR TYPE 8 & 12 LAMPPOSTS
E-3788	SHEET METAL PYLON
F-3390	DAVIT TYPE ALUMINUM LAMPPOST
G-3759	DETAILS OF TERMINAL BLOCK (3 RELAY)
H-2555	MISCELLANEOUS LIGHTING DETAILS
H-3009	BARRICADE & SIGN LIGHTING
H-3140	DETAILS OF TERMINAL BLOCK (6 RELAY)
H-3435	FIRE ALARM LUMINAIRE & BRACKET
H-3860	LAMPPOST
J-3739	FABRICATED ALUMINUM TRANSFORMER BASE
J-3748	ALUMINUM DOOR FOR FABRICATED TRANSFORMER BASE
J-3857	FIRE ALARM LUMINAIRE HOOD
K-3438-2	LUMINAIRE TYPE 3438-2

DEPT. OF TRAFFIC

TRAFFIC SIGNAL FOUNDATIONS

LG 56 S & LB-III

POLICE DEPT. - COMMUNICATIONS DIVISION

STANDARD DRAWING NOS. 1 & 2

FIRE DEPT. - COMMUNICATIONS DIVISION

STANDARD DRAWING NOS. 140 & 141

PRESIDENT OF THE BOROUGH OF THE BRONX

MAP ESTABLISHING LINES AND GRADES FOR BRUCKNER EXPRESSWAY, SECTION 2
MAP SHOWING THE LAYING-OUT OF SECTION 2 OF THE BRONX RIVER EXPRESSWAY
CONSTRUCTING BRIDGE & APPROACHES CARRYING BRUCKNER BLVD. OVER N.Y. N.H. & H. R.R.
FOR LIST OF APPLICABLE STANDARD SEWER DRAWINGS, SEE SHEET 30

TRANSIT AUTHORITY

ROUTE NOS. 19 & 22 - SECTION NO. 1A - STRUCTURAL PLANS OF PUBLIC SERVICE COMMISSION
ROUTE NOS. 19 & 22 - SECTIONS 1A & STRUCTURAL PLANS OF PUBLIC SERVICE COMMISSION
ROUTE NOS. 19 & 22 SECTIONS 1 & 1A - STRUCTURAL PLANS OF BOARD OF TRANSPORTATION

DEPARTMENT OF PARKS

STANDARD DRAWINGS - TYPICAL DETAILS FOR CHAIN LINK FENCING

BOARD OF EDUCATION

BUREAU OF PLANT OPERATION AND MAINTENANCE - STANDARD DETAILS FOR SEDIMENT PITS

BRUCKNER EXPRESSWAY
SECTION I

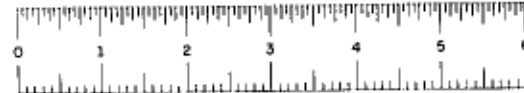
LIST OF DRAWINGS

DRAWING NO.	SCALE	DATE	SHEET NO.
		3-31-60	2

HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
NEW YORK KANSAS CITY

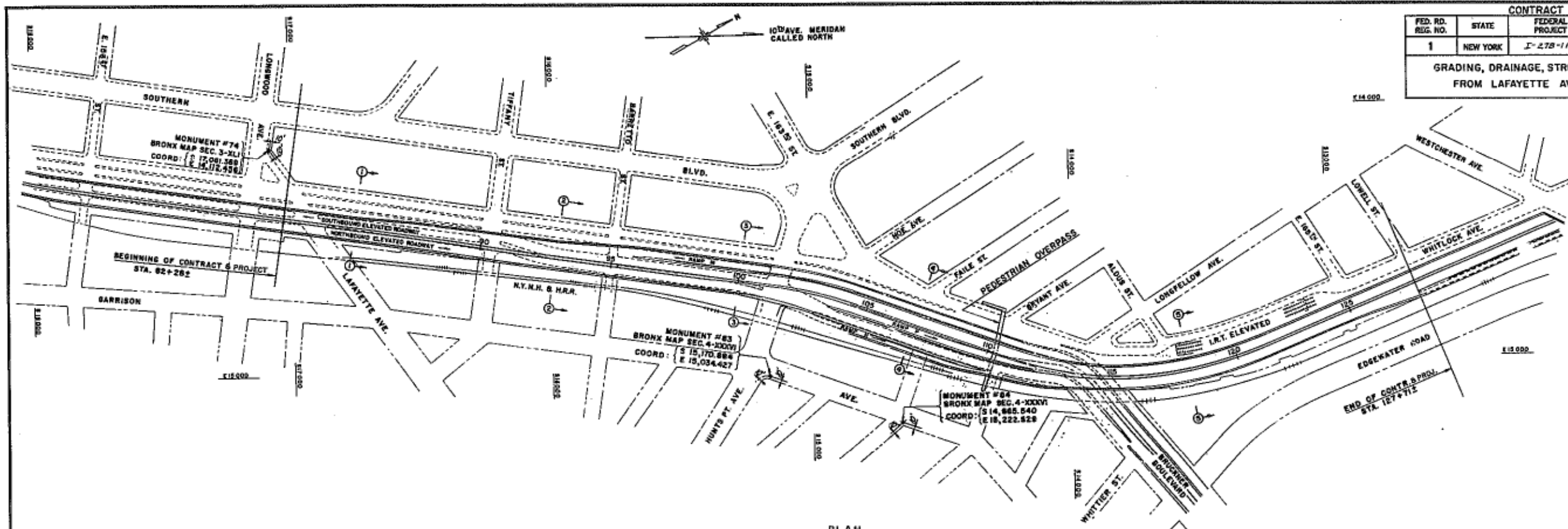
1	TITLE SHEET	95	STRINGER SPLICES
2	LIST OF DRAWINGS	96	EXPANSION SHOES
3	PLAN OF CONTRACT	97	FIXED SHOES
4	GENERAL NOTES AND LEGEND	98	BOX GIRDER SHOES
5, 6	TABLES OF ROADWAY QUANTITIES	99, 100, 101	SUPERSTRUCTURE CROSS SECTIONS
7	TABLE OF DRAINAGE STRUCTURES	102	EXPANSION JOINT DETAILS - TOOTHED JOINTS
8	TABLES OF ELEVATED EXPRESSWAY QUANTITIES & SHEET PILING	103	" " " " - CLOSED & SLIDING JOINTS
9	GENERAL PLAN AND PROFILE - STA. 82+25 TO 91+14	104	SHEAR STUDS AND COVER PLATE WELDING
10	" " " " - STA. 91+14 TO 10+85	105	DRAINAGE INLET & TROUGH DETAILS
11	" " " " - STA. 10+85 TO 119+00	106	DRAINAGE DETAILS
12	" " " " - STA. 119+00 TO 127+71	107	ELEVATION & DETAILS - STEEL BENTS B3-1 & B3-2
13	TABLES OF ALIGNMENT	108	DETAILS - STEEL BENTS B3-1 & B3-2 & DEAM TYPE MALL BARRIER
14	TABLE OF PIER LOCATIONS	109	SECTION - BOX GIRDER G3-3
15	PROFILE - NORTHBOUND EXPRESSWAY	110	DETAILS - BOX GIRDER G3-3
16	" " " " - SOUTHBOUND EXPRESSWAY	111	ELEVATION - BOX GIRDER G3-4
17	" " " " - RAMP "M"	112	DETAILS - BOX GIRDER G3-4
18	" " " " - RAMP "N" & "P"	113	ELEVATION - BOX GIRDER G3-5
19	TYPICAL ROADWAY CROSS SECTIONS	114	DETAILS - BOX GIRDER G3-5
20	PAVING, CURBING AND SURFACING DETAILS	115	ELEVATION - BOX GIRDER G3-6
21	SURFACE & SUBSURFACE PLAN - STA. 82+25 TO 84+85	116	DETAILS - BOX GIRDERS G3-6 & G3-9
22	" " " " " " STA. 84+85 TO 90+45	117	PLAN & ELEVATION - BOX GIRDER G3-7
23	" " " " " " STA. 90+45 TO 95+85	118	PLAN & ELEVATION - BOX GIRDER G3-8
24	" " " " " " STA. 95+85 TO 101+35 SB	119	DETAILS - BOX GIRDERS G3-7 & G3-8
25	" " " " " " STA. 101+35 SB TO 106+75 SB	120	ELEVATION - BOX GIRDERS G3-9 & G3-10
26	" " " " " " STA. 106+75 SB TO 112+15 SB	121	DETAILS - BOX GIRDER G3-10
27	" " " " " " STA. 112+15 SB TO 117+65 SB	122	ELEVATION - BOX GIRDER G3-25
28	" " " " " " STA. 117+65 SB TO 123+60	123	DETAILS - BOX GIRDER G3-25
29	" " " " " " STA. 123+60 TO 127+71	124	ELEVATION - BOX GIRDER G3-26
30, 31	DETAILS OF DRAINAGE STRUCTURES	125	DETAILS - BOX GIRDER G3-26
32	CONDUCTOR SYSTEM FOR DRAINAGE OF ELEVATED EXPRESSWAY	126	ELEVATION - BOX GIRDERS G3-42 and G3-43
33	EXCAVATION PAYMENT LINES	127	ELEVATION - BOX GIRDER G3-44
34, 35, 36	ALTERATIONS TO IRT SUBWAY VENTILATORS	128	DETAILS - BOX GIRDERS G3-42 TO G3-44
37	ALTERATION TO EXISTING BRUCKNER BOULEVARD BRIDGE OVER THE N.Y., N.H. & H. RAILROAD	129	DETAILS - COLUMNS C3-42 E & W, C3-43 E & W, C3-44 E & W
38	BRYANT AVENUE FOOTBRIDGE - GENERAL PLAN & ELEVATION	130	HANDRAIL AND PARAPET DETAILS
39	" " " " " " - SUPERSTRUCTURE	131, 132	CAMBER TABLES
40, 41	" " " " " " - SUBSTRUCTURE		
42	" " " " " " - MISCELLANEOUS DETAILS	133	CONCRETE DECK
		134	DECK REINFORCEMENT - UNITS 1-1, 1-10A & 1-10B
		135	" " " " " " UNITS 1-2, 1-4 & 1-14
		136	" " " " " " UNIT 1-3
		137	" " " " " " UNIT 1-5
		138	" " " " " " UNIT 1-6
		139	" " " " " " UNIT 1-7
		140	" " " " " " UNITS 1-8 (M), 1-9 (M) & 1-11 (M)
		141	" " " " " " UNIT 1-12
		142	" " " " " " UNITS 1-13 (M), 1-15 (M) & 1-16
		143	" " " " " " UNITS 1-18, 1-19 (P), 1-20 & 1-21 (P)
		144	" " " " " " UNITS 1-22 & 1-25 (P)
		145	" " " " " " UNITS 1-23 (N), 1-26 (N) & 1-29 (N)
		146	" " " " " " UNITS 1-24A, B & C, & 1-32
		147	" " " " " " UNITS 1-27 (P), 1-28, 1-30 & 1-31
		148	" " " " " " UNITS 1-32 THRU 1-37
		149	" " " " " " UNITS 1-38 & 1-39
		150	" " " " " " UNITS 1-40 & 1-41
		151	" " " " " " UNITS 1-42 & 1-43
		152	" " " " " " UNITS 1-44 THRU 1-46
		153	" " " " " " UNITS 1-49, 1-50 & 1-51
		154	DECK REINFORCEMENT DETAILS
		155	MEDIAN, PARAPET & DECK REINFORCEMENT DETAILS
			MISCELLANEOUS DECK DETAILS & PARAPET JUNCTIONS
		156	RETAINING WALLS
		157	W1 & SECTIONS 7, 8 & 9-W2
		158	SECTIONS 10 THRU 19-W2
		159	W3 & SECTIONS 20 THRU 23-W2
		160	W4 & W5
		161	W6 & W7
		162	W8 & NEW CELLAR WALL AT HUNTS POINT AVENUE
		163	W9 SECTIONS 1 THRU 7
		164	W10
		165	W11
		166	W12
		167	W13
		168	STEM & FOOTING REINFORCEMENT PATTERNS - WALLS W4 THRU W8
		169	REINFORCEMENT DETAILS - WALLS W6, W7 & W8
		170	REINFORCEMENT PATTERNS - STEM & FOOTING - WALLS W1, W2, W9, W10 & W13
		171	FOOTINGS W11 & W12
		172	REINFORCEMENT DETAILS - SECTION 5-WALL W1 & SECTION 8-WALL W2
		173	" " " " " " SECTIONS 4, 5, 7 & 11 - WALL W10
		174	" " " " " " WALL W3, SECTIONS 1 & 6 - WALL W1
		175	" " " " " " SECTION 7 - WALL W2, SECTION 1 - WALL W10
		176	" " " " " " WALL W9 AND WALL W13
		177, 178	REINFORCEMENT PATTERNS AND DETAILS - WALLS W11 & W12
		179, 180	FILE PLANS
			WALL DETAILS
			RAMP M RELIEVING SLAB & CURTAIN WALLS
		181	ELECTRICAL NOTES & LEGEND
		182, 183, 184	ELECTRICAL DETAILS
		185	FOOTBRIDGE LIGHTING
		186 to 194	ELECTRICAL DISTRIBUTION PLAN
		195	ILLUMINATED & TEMPORARY BARRICADES, WARNING SIGNS
		196	MAINTENANCE OF TRAFFIC - GENERAL PLAN
		197	" " " " " " - VICINITY OF LONGFELLOW AVENUE
		198	TEMPORARY SIGN SUPPORTS
		199	BAR REINFORCEMENT BENDING DIAGRAMS
		200 to 244	BAR LISTS
		245	ALTERATIONS TO N.Y., N.H. & H. R.R. CO. FACILITIES
			DRAWING NOS. BE 20-1 THRU BE (To be furnished after award of Contract)
			SCHEMATIC DRAWING

In Charge of R.B.K.
Made by R.B.K.
Checked by T.P.S.

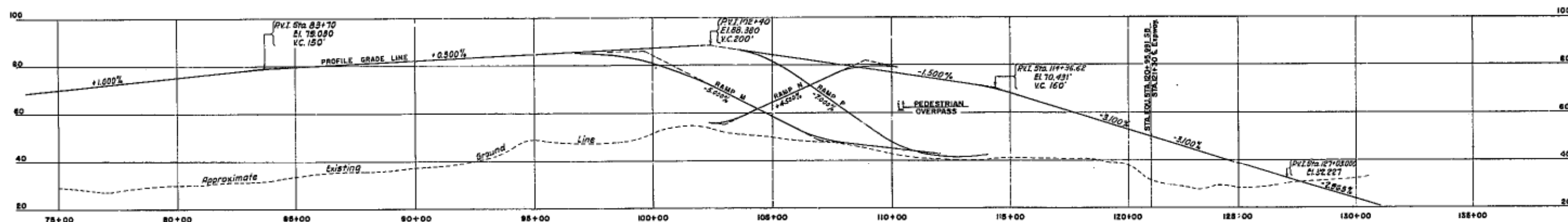


F.I.B.E. 60-1

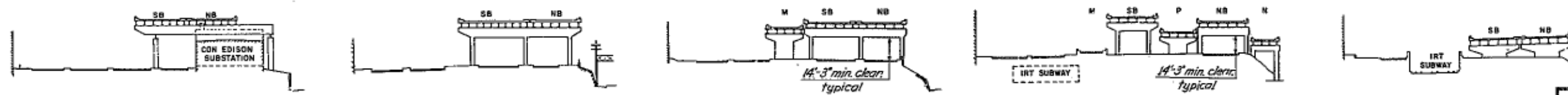
CONTRACT NO. 3				
FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NEW YORK	I-275-148	3	245
GRADING, DRAINAGE, STRUCTURES AND PAVING FROM LAFAYETTE AVE. TO LOWELL ST.				



PLAN
1"=200'



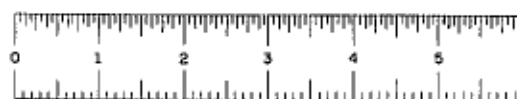
PROFILE
Horiz. 1"=200'
Vert. 1"=20'



TYPICAL SECTIONS
1"=50'

In Charge of R.B.K.
Made by A.F.S. & K.P.M.
Traced by T.J.O.
Checked by G.F.S.

BRUCKNER EXPRESSWAY SECTION 1			
PLAN OF CONTRACT			
DRAWING NO.	SCALE	DATE	SHEET NO.
As Noted	As Noted	3-31-60	3
HOWARD, NEEDLER, TAMM & BERCHOWITZ CONSULTING ENGINEERS			
NEW YORK		KANSAS CITY	



F I B E 6 0 0 0 1

F.I.B.E. 60-1

CONTRACT NO. 3

FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	1-278-168		5	245

GRADING, DRAINAGE, STRUCTURES AND PAVING
FROM LAFAYETTE AVE. TO LOWELL ST.

TABLE OF EXCAVATION & EMBANKMENT				
LOCATION	FROM STA. TO STA. (Approx.)	UNCLASS. EXCAV. ITEM 2S	TRENCH, CUL- VERT & BRIDGE EXCAVATION ITEM 5S	EMBANK- MENT
		C.Y.	C.Y.	
From Lafayette Ave. to Tiffany St.	82+28 - 90+00	617		166
• Tiffany St. to Barretto St.	90+00 - 95+00	454		1,585
• Barretto St. to Hunts Pt. Ave.	95+00 - 101+00	528		1,691
• Hunts Point Ave. to Bryant Ave.	101+00 - 111+00	3,004		15,826
• Bryant Ave. to Longfellow Ave.	111+00 - 114+00	1,550		654
• Longfellow Ave. to Abut. NB-5B	114+00 - 123+80	238		1,999
• Abut. NB-5B to Sheridan Expwy.	123+80 - 127+71	10		17,490
Demolished Building Sites		450		13,587
Retaining Walls			13,936	
Piers			24,761	
Abutments			1,167	
From Water Quantities			2,629	
• Drainage •			10,354	
Detours		82		
Borrow (see Calculation below)		43,698		
Bryant Ave. Footbridge			595	
Ramp M Relief Slab & Curt. Walls		312	266	
Railroad Work			75	
TOTALS		50,943	53,783	52,998

Calculation for Borrow Quantity:

Embankment = 52,998 C.Y.
Suitable excavation available for embankment = 9,300 C.Y.
Volume of Borrow = 43,698 C.Y.

TABLE OF LENGTHS		
FROM STA. TO STA.	L.F.	REMARKS
82+28 - 92+76	1,048	Grading, Drainage, Elevated Expwy, Paving, Lighting & Misc. Work
92+76 - 123+80	3,070	Grading, Drainage, Elevated Expwy, Walls, Paving, Lighting & Misc. Work
123+80 - 127+71	391	Grading, Drainage, Walls, Paving, Lighting & Miscellaneous Work
TOTAL LENGTH OF CONTRACT	4,509	= 0.854 Miles, Bronx County

TABLE OF DRAINAGE QUANTITIES			
ITEM NO.	DESCRIPTION	UNIT	QUANTITY
2EF-B	Selected Fill	C.Y.	2,505
55	Trench, Culvert and Bridge Excavation	"	10,354
C10	Porous Concrete Pipe Underdrain, 6" Dia.	LF	1,070
14 C	Reinforced Concrete Culvert Pipe, 12" Dia.	"	1,812
14 D	" " " " 15" "	"	1,602
14 E	" " " " 18" "	"	721
14 F	" " " " 24" "	"	1,028
14 G	" " " " 30" "	"	128
15-2	Portland Cement, Type 2	Bb/s.	1,002
15-N	Natural " " N	"	167
22	Class 3 Concrete	C.Y.	317
28RR	Bar Reinforcement for Structures	Lbs.	8,143
30S	Miscellaneous Metals	"	87,864
83X	Temporary Sheet Piling	S.F.	90,078
102S	Catch Basins, Manholes & Drop Inlets	C.Y.	522
103S	Adjusting Catch Basins, Manholes & Drop Inlets	Ea.	23
103X	Changing Elevations, Catch Basins, Manholes & Drop Inlets	"	5
119A	Bank Gravel Fill	C.Y.	254
250	Sediment Trap and Appurtenances	L.S.	—
400	Furnish & Install Wrought Iron Pipe & Fittings, 6" Dia.	LF	10

TABLE OF CHAIN LINK FENCING					
LOCATION	6' HIGH FENCE ITEM 106 AB	12' HIGH FENCE ITEM 223 A	SINGLE GATE ITEM 226	DOUBLE GATE ITEM 228	DOUBLE GATE ITEM 224
	L.F.	L.F.	Ea.	Ea.	Ea.
Lafayette Ave. to Tiffany St. & Wall W-3	395			1	
Tiffany St. to Barretto St. & Wall W-1	392			1	
Barretto St. to Hunts Point Ave. & Wall W-2	496				
Abut. Ramp N to Faile St. & Wall W-9	645		1		
Wall between 5B East Rdy. & Ramp M	840				
Wall between NB Rdy. & Ramp P or M	730		1		
RR R.O.W. to Subway Portal	558			1	
Along Whitlock Ave.	37		1		
• RR R.O.W.	140				
Wall W10	245				
Wall W13	225				
Bryant Ave. Footbridge		150			1
West Mall Hunts Pt. Ave. to Faile St.	345				
TOTALS	5,048	150	3	3	1

In Charge of R.B.K.
Made by E.H.
Traced by
Checked by H.H.

BRUCKNER EXPRESSWAY
SECTION 1

TABLES OF
ROADWAY QUANTITIES

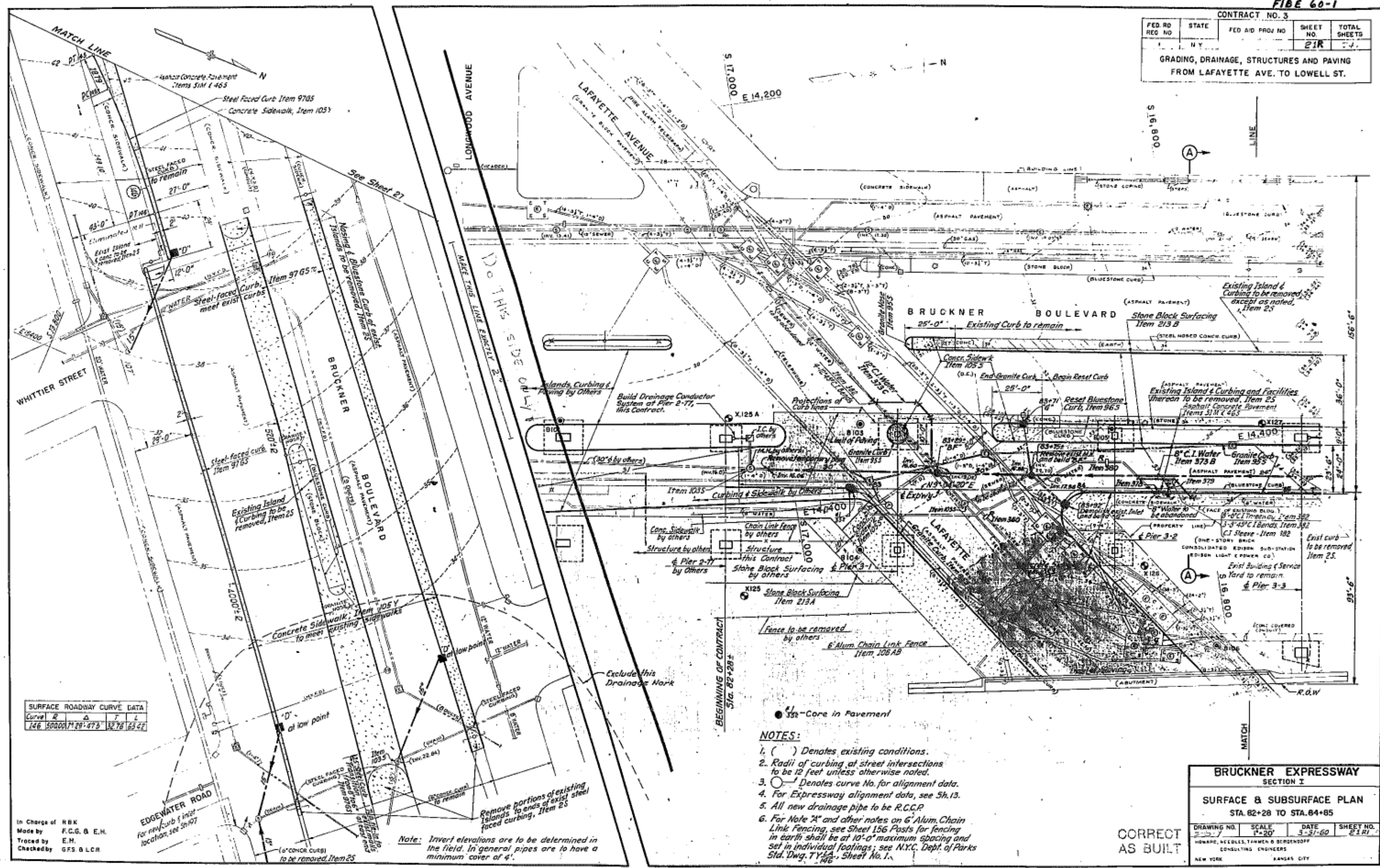
DRAWING NO. 3-6-4A SCALE 3/8" = 1' DATE 3-3-60 SHEET NO. 5

HOWARD, NEEDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS

NEW YORK MANHATTAN CITY

FIBE 60-1

CONTRACT NO. 3				
FED. RD. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
146	NY		21R	21
GRADING, DRAINAGE, STRUCTURES AND PAVING FROM LAFAYETTE AVE. TO LOWELL ST.				



SURFACE ROADWAY CURVE DATA				
Curve	R	Δ	T	L
146	50000	7° 29' 47.3"	32.76	65.27

In Charge of RBK
 Made by F.C.G. & E.H.
 Traced by E.H.
 Checked by G.F.S. & L.C.R.

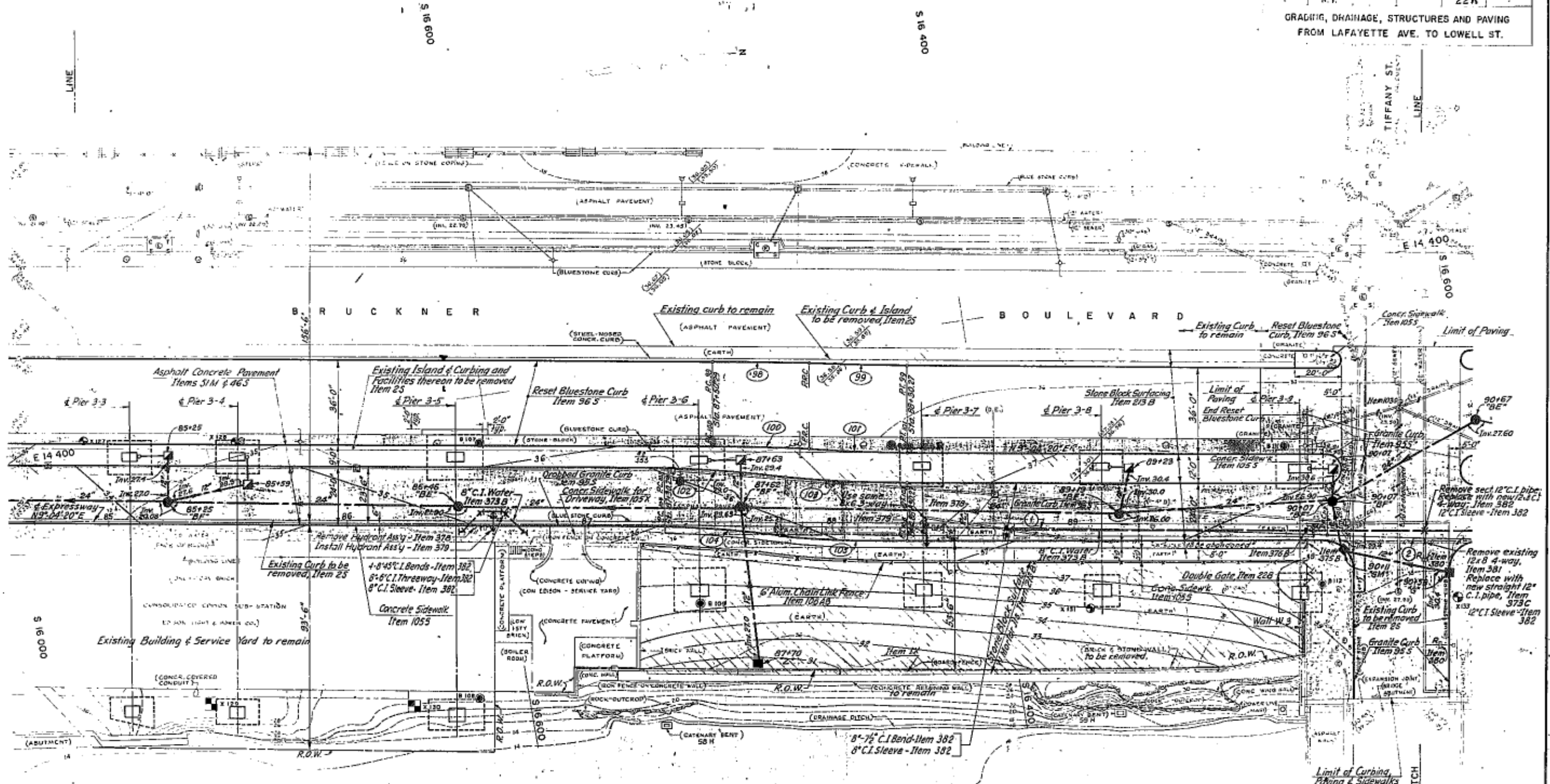
- NOTES:**
- () Denotes existing conditions.
 - Radii of curbing at street intersections to be 12 feet unless otherwise noted.
 - Denotes curve No. for alignment data.
 - For Expressway alignment data, see Sh.13.
 - All new drainage pipe to be R.C.C.P.
 - For Note "A" and other notes on 6" Alum. Chain Link Fencing, see Sheet 156 Posts for fencing in earth shall be at 10'-0" maximum spacing and set in individual footings; see N.Y.C. Dept. of Parks Std. Dwg. T.Y.L.A. Sheet No. 1.

CORRECT
 AS BUILT

BRUCKNER EXPRESSWAY SECTION I			
SURFACE & SUBSURFACE PLAN			
STA. 82+28 TO STA. 84+85			
DRAWING NO.	SCALE	DATE	SHEET NO.
2-1-7	1"=20'	5-31-60	21R
HOWARD, NEEDLES, TAMMEN & BERGENSOFF CONSULTING ENGINEERS			
NEW YORK		KANSAS CITY	

FIB 60-1

CONTRACT NO. 3				
FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.
1	N.Y.			22R
GRADING, DRAINAGE, STRUCTURES AND PAVING FROM LAFAYETTE AVE. TO LOWELL ST.				TOTAL SHEETS



SURFACE ROADWAY CURVE DATA

Curve	R	Δ	T	L
98	856	2°-51'-54.30"	20.91'	41.80'
99	764	2°-51'-54.30"	19.11'	38.20'
100	800	2°-51'-54.30"	20.01'	40.00'
101	800	2°-51'-54.30"	20.01'	40.00'
102	500	5°-43'-55.10"	25.09'	50.02'
103	500	5°-43'-55.10"	25.09'	50.02'
104	476	5°-43'-55.10"	23.83'	47.62'
105	524	5°-43'-55.10"	26.23'	52.42'

NOTES:
See Sheets 21 & 30

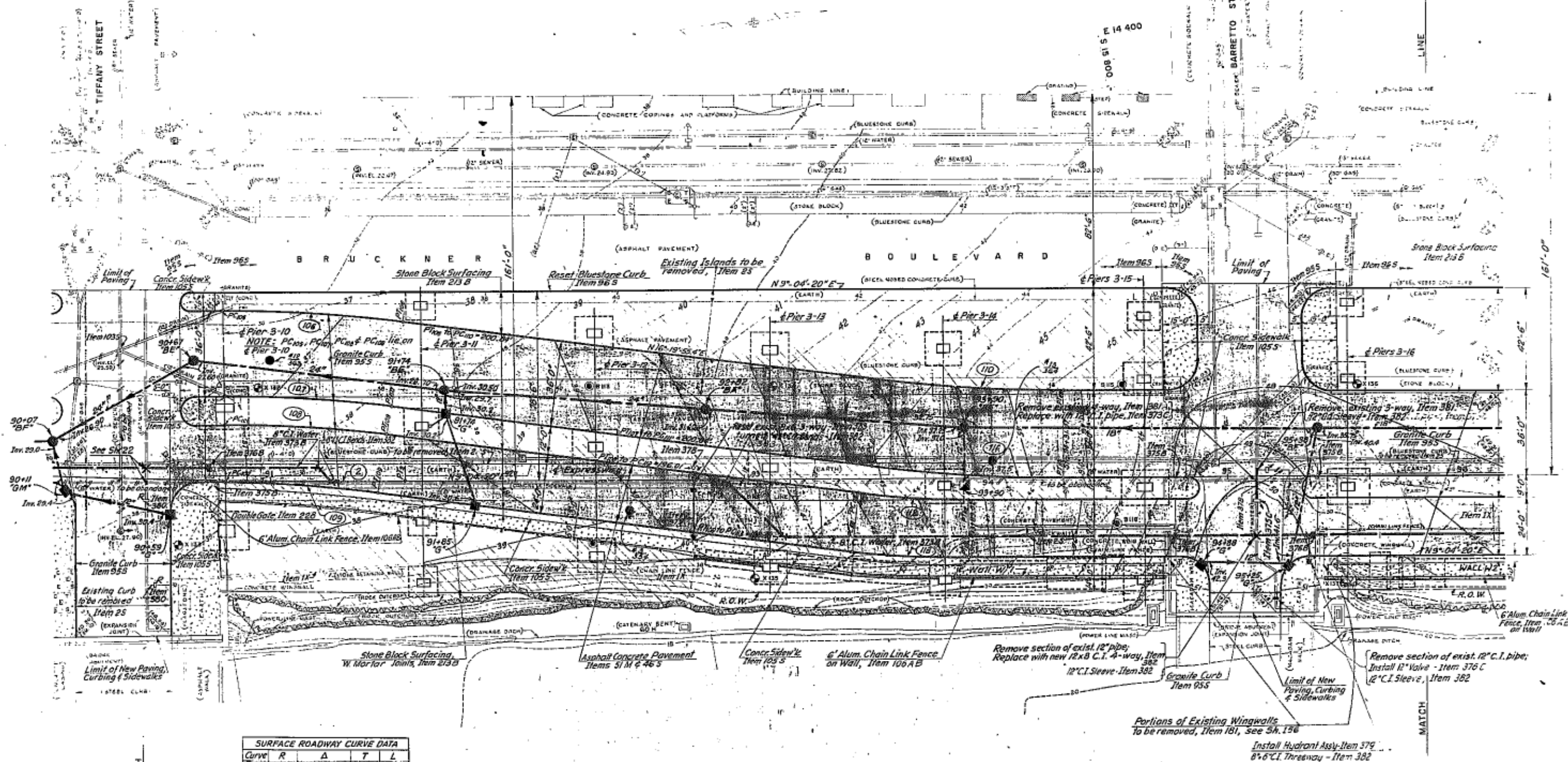
In Charge of R.B.K.
Made by D.G. & E.H.
Traced by E.H.
Checked by G.F.S. & L.C.R.

CORRECT
AS BUILT

BRUCKNER EXPRESSWAY			
SECTION I			
SURFACE & SUBSURFACE PLAN			
STA. 84+05 TO STA. 90+45			
DRAWING NO.	SCALE	DATE	SHEET NO.
101	1"=20'	2-3-50	22R
HUBERT, MCLELLAN, FARMER & BENDIS, INC.			
CIVIL ENGINEERS			
NEW YORK			

CONTRACT NO. 3					
FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.			23R	

GRADING, DRAINAGE, STRUCTURES AND PAVING
FROM LAFAYETTE AVE. TO LOWELL ST.



SURFACE ROADWAY CURVE DATA				
CURVE	R	Δ	T	L
106	600'	7°15'35.40"	38.06'	76.02'
107	364'	do.	35.78'	71.46'
108	552'	do.	35.02'	69.94'
109	528'	do.	33.50'	66.90'
110	600'	do.	38.06'	76.02'
111	636'	do.	40.35'	80.59'
112	350'	do.	22.20'	44.35'
113	374'	do.	23.73'	47.39'

NOTES:

See note sheet 10 regarding Bent 60H.
Additional notes on sheets 21 & 30

BRUCKNER EXPRESSWAY
SECTION I

SURFACE & SUBSURFACE PLAN

STA. 90+45 TO STA. 95+65

DRAWING NO.	SCALE	DATE	SHEET NO.
1	1"=20'	5-31-50	23R

HOMANS, VELLIES, TAYLOR & BERGENDOFF
CONSULTING ENGINEERS
NEW YORK KANSAS CITY

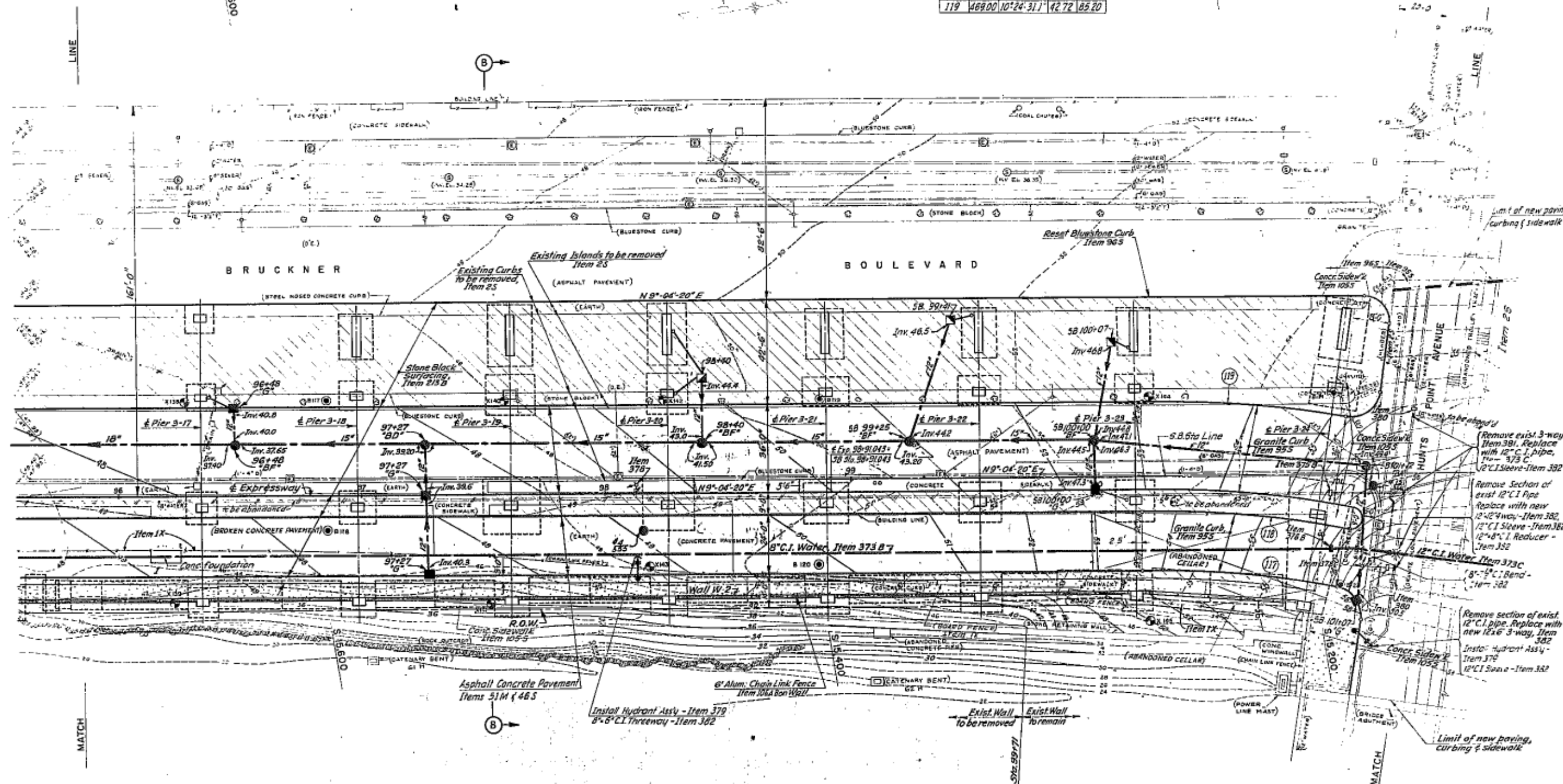
In Charge of R.B.H.
Made by L.R.B.H.
Traced by F.H.
Checked by H.S.B.L.R.

CORRECT
AS BUILT

FED. RD. REG. NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		24R	

GRADING, DRAINAGE, STRUCTURES AND PAVING
FROM LAFAYETTE AVE. TO LOWELL ST.

Curve	R	Δ	T	L
117	400.00	11°29'50"	40.27	80.27
118	424.00	11°35'27"	43.04	85.78
119	469.00	10°24'31"	42.72	85.20



NOTES:
See sheet 10 regarding
Bent 61H.
Additional notes on sheets 21 & 30

CORRECT
AS BUILT

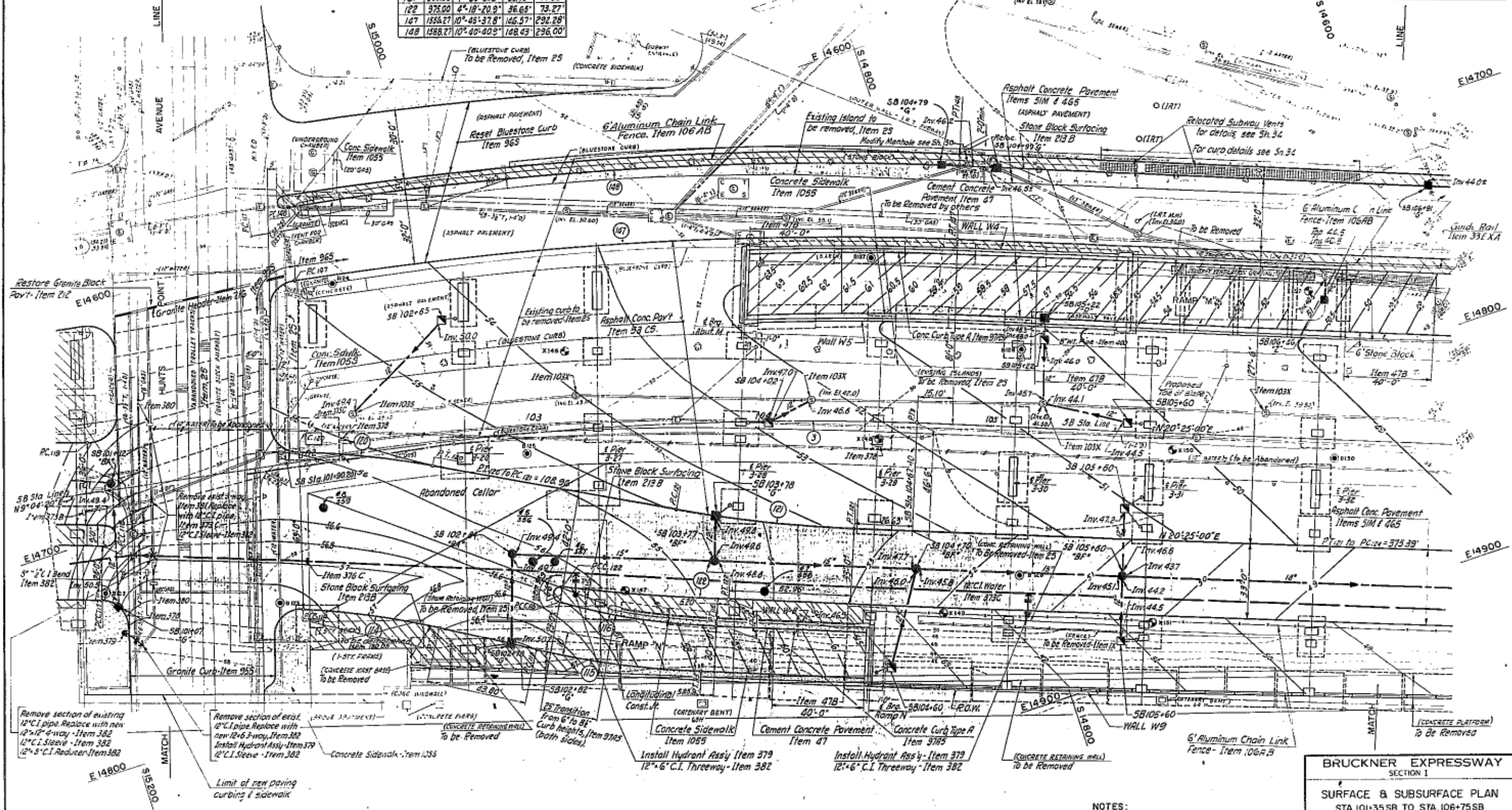
BRUCKNER EXPRESSWAY SECTION I			
SURFACE & SUBSURFACE PLAN STA. 95+85 TO STA. 101+35.5B			
DRAWING NO.	SCALE	DATE	SHEET NO.
10-100	1"=20'	3-21-60	24R

NEW YORK CONSULTING ENGINEERS
KANSAS CITY

In Charge of R.B.K.
Made by D.G. & E.H.
Traced by E.H.
Checked by G.S. HLEN

CONTRACT NO. 3				
FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		25R	24
GRADING, DRAINAGE, STRUCTURES AND PAVING FROM LAFAYETTE AVE. TO LOWELL ST.				

SURFACE ROADWAY CURVE DATA				
Curve	R	Δ	T	L
114	360.00	10°-18'-18.9"	30.66'	61.15'
115	600.00	10°-27'-22.5"	35.61'	73.01'
116	290.00	18°-45'-40.2"	35.00'	69.67'
120	408.00	7°-45'-51.6"	22.78'	55.43'
121	560.00	7°-55'-01.6"	38.75'	77.38'
122	975.00	6°-18'-20.9"	36.65'	73.27'
147	1558.27	10°-45'-37.8"	146.57'	292.28'
148	1588.27	10°-40'-40.9"	148.43'	296.00'



In Charge of R.B.K.
Made by
Traced by
Checked by LCR B & F S

NOTES:
See Sht. 21 & 30

CORRECT
AS BUILT

BRUCKNER EXPRESSWAY
SECTION I

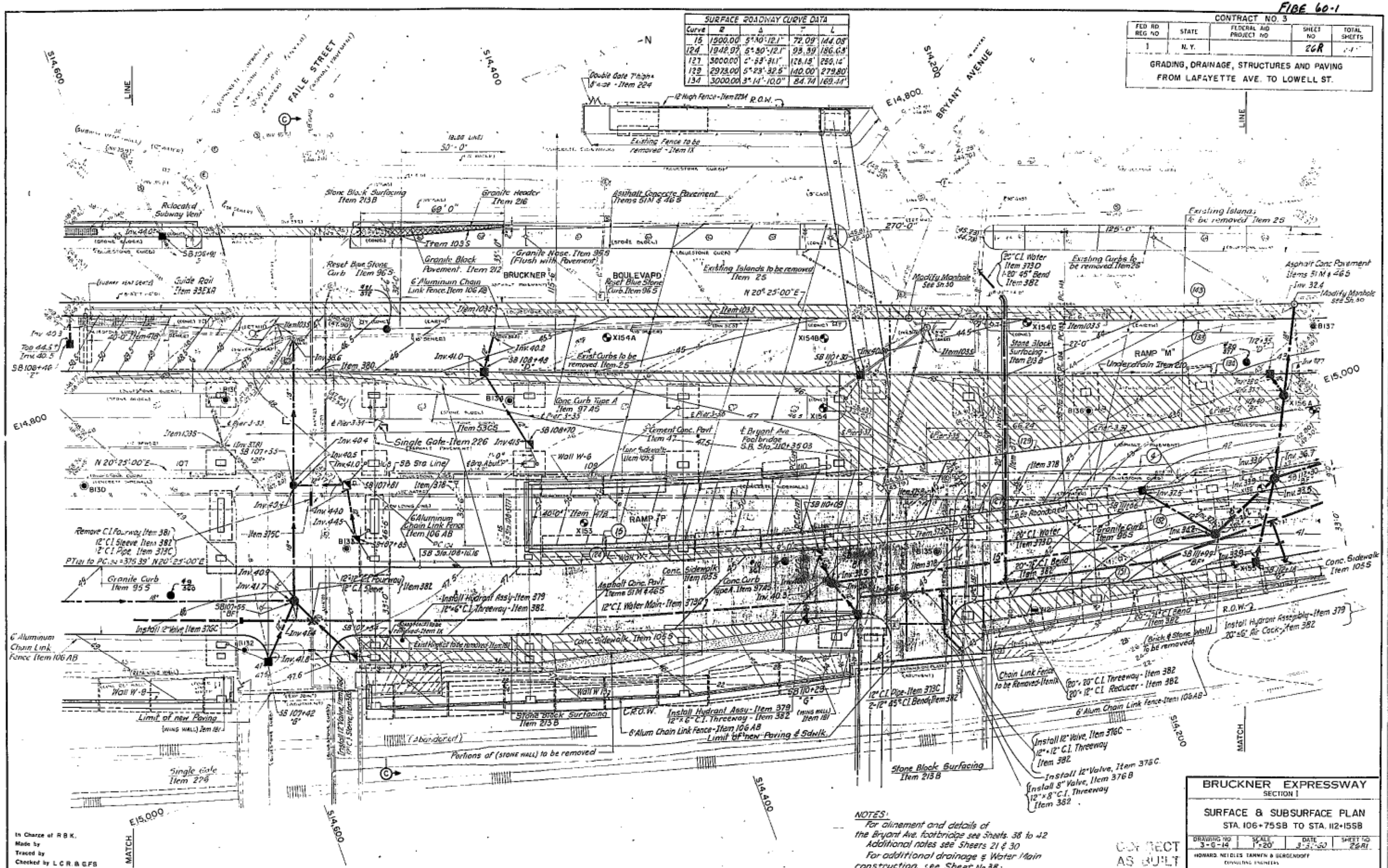
SURFACE & SUBSURFACE PLAN
STA 101+35 SB TO STA 106+75 SB

DRAWING NO.	SCALE	DATE	SHEET NO.
HOWARD NEEDLES TAMM & BERGMANN	1"=20'	8-5-50	25R

NEW YORK

CONTRACT NO. 3				
FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N. Y.		26R	1-1
GRADING, DRAINAGE, STRUCTURES AND PAVING FROM LAFAYETTE AVE. TO LOWELL ST.				

SURFACE ROADWAY CURVE DATA				
Curve	R	Δ	T	L
15	1500.00	5°40'12.1"	72.09	144.08
124	1942.97	5°30'12.1"	93.39	186.63
127	3000.00	5°33'31.1"	126.15	252.14
129	2973.00	5°23'32.5"	140.00	279.80
134	3000.00	3°14'10.0"	84.74	169.44



NOTES:
For alignment and details of the Bryant Ave. footbridge see Sheets 38 to 42
Additional notes see Sheets 21 & 30
For additional drainage & Water Main construction, see Sheet No. 38

BRUCKNER EXPRESSWAY
SECTION I

SURFACE & SUBSURFACE PLAN
STA. 106+75.58 TO STA. 112+155.8

DRAWING NO.	3-6-14	SCALE	1"=20'	DATE	3-5-50	SHEET NO.	26R
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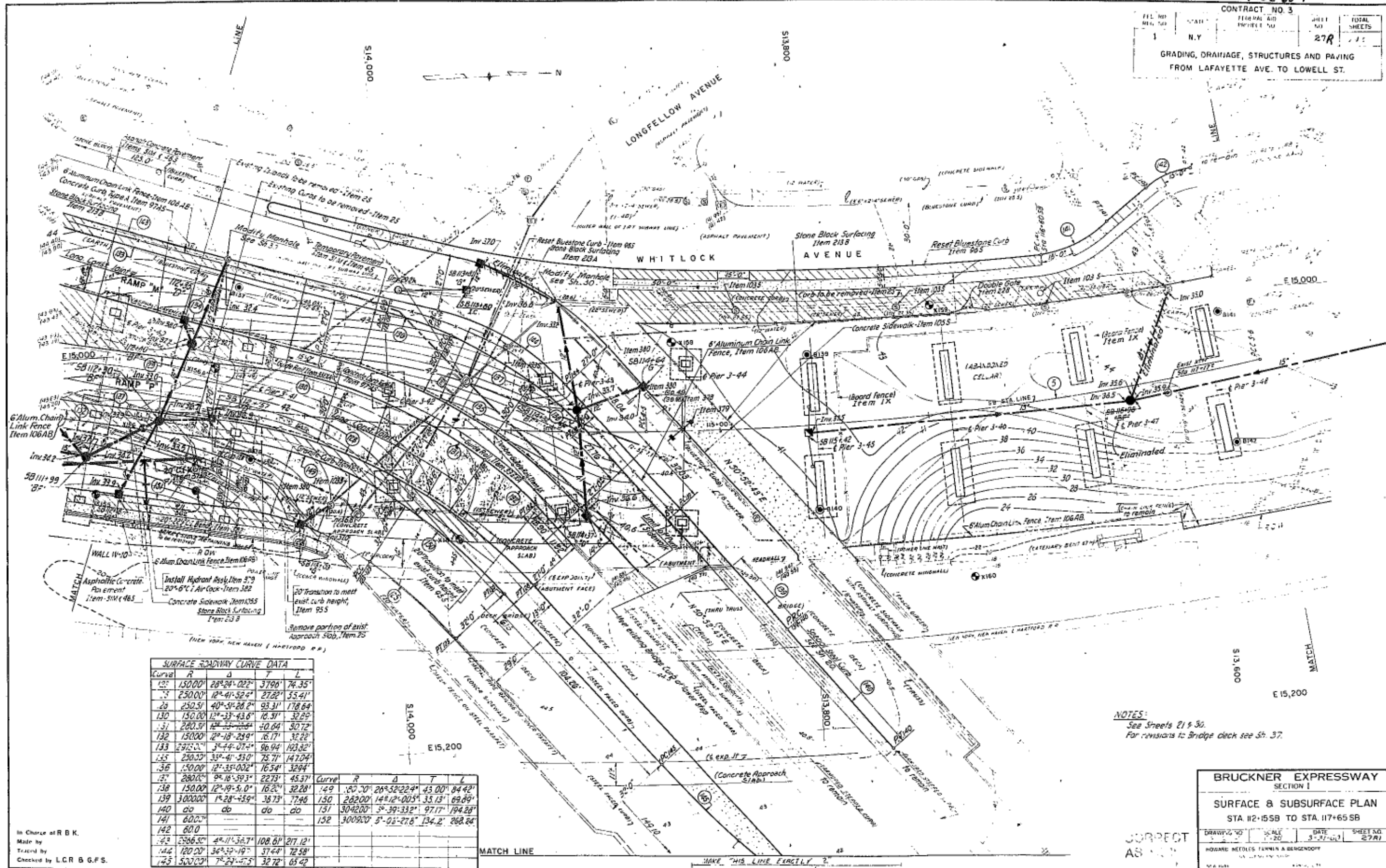
HOWARD, NEIDLES, TAMMEN & BERGENDOFF
CONSULTING ENGINEERS
NEW YORK KANSAS CITY

In Charge of R.B.K.
Made by
Traced by
Checked by L.C.R. & G.F.S.

FIBE 60-1

CONTRACT NO. 3

FED. RD. DIST.	STATE	FED. AID DIST. NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		27R	111

GRADING, DRAINAGE, STRUCTURES AND PAVING
FROM LAFAYETTE AVE. TO LOWELL ST.

Curve	R	Δ	T	L
127	150.00'	28°24'02"	37.96'	74.35'
128	250.00'	12°41'52"	27.62'	55.41'
129	250.51'	40°34'28"	93.31'	178.64'
130	150.00'	12°33'43.6"	16.31'	32.69'
131	260.31'	12°33'43.6"	40.04'	90.72'
132	150.00'	12°18'29.9"	16.17'	32.22'
133	250.51'	3°44'07.4"	96.94'	193.82'
134	250.51'	35°41'33.0"	75.71'	147.04'
135	150.00'	12°35'00.2"	16.54'	32.94'
136	280.00'	9°16'39.3"	22.73'	45.37'
137	150.00'	12°19'51.0"	16.20'	32.28'
138	300.000'	1°28'45.9"	38.73'	77.46'
139	do	do	do	do
140	do	do	do	do
141	600.00'	do	do	do
142	600.00'	do	do	do
143	2566.30'	4°11'36.7"	108.60'	217.12'
144	120.00'	34°32'19.7"	37.44'	72.58'
145	500.00'	7°29'47.5"	32.72'	65.42'

Curve	R	Δ	T	L
146	180.20'	26°52'22.4"	43.00'	84.42'
147	150.00'	14°12'00.5"	35.13'	69.89'
148	304.200'	3°39'33.2"	97.17'	194.28'
149	300.920'	5°03'27.6"	134.2'	268.24'

NOTES:

See Sheets 21 & 30.
For revisions to Bridge click see Sh. 37.BRUCKNER EXPRESSWAY
SECTION ISURFACE & SUBSURFACE PLAN
STA. 112+55B TO STA. 117+65SB

DRAWN BY	SCALE	DATE	SHEET NO.
HOWARD NEEDLES TAMMIN & BERGENDORF	1"=20'	3-27-61	27R

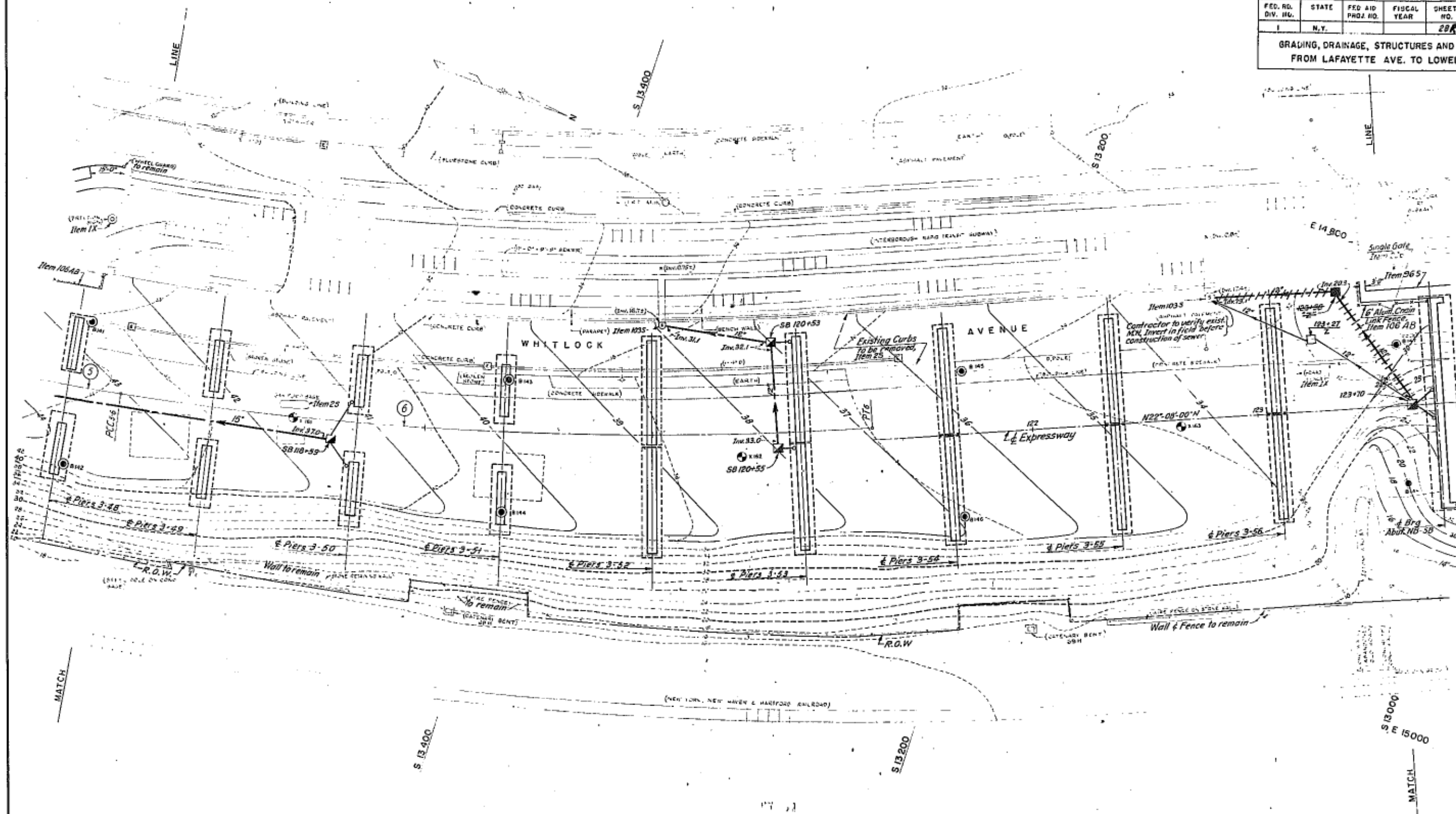
CORRECT
AS SHOWNIn Charge at R.B.K.
Made by
Traced by
Checked by L.C.R. & G.F.S.

FIBE 60-1

CONTRACT NO. 3

FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.			288	288

GRADING, DRAINAGE, STRUCTURES AND PAVING
FROM LAFAYETTE AVE. TO LOWELL ST.



NOTES:
See Sheets 21 & 30.

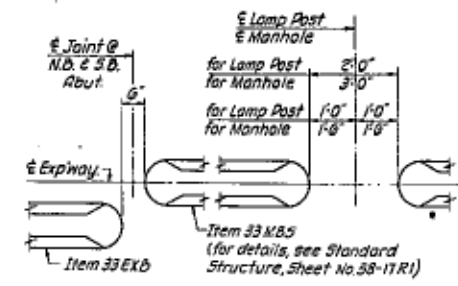
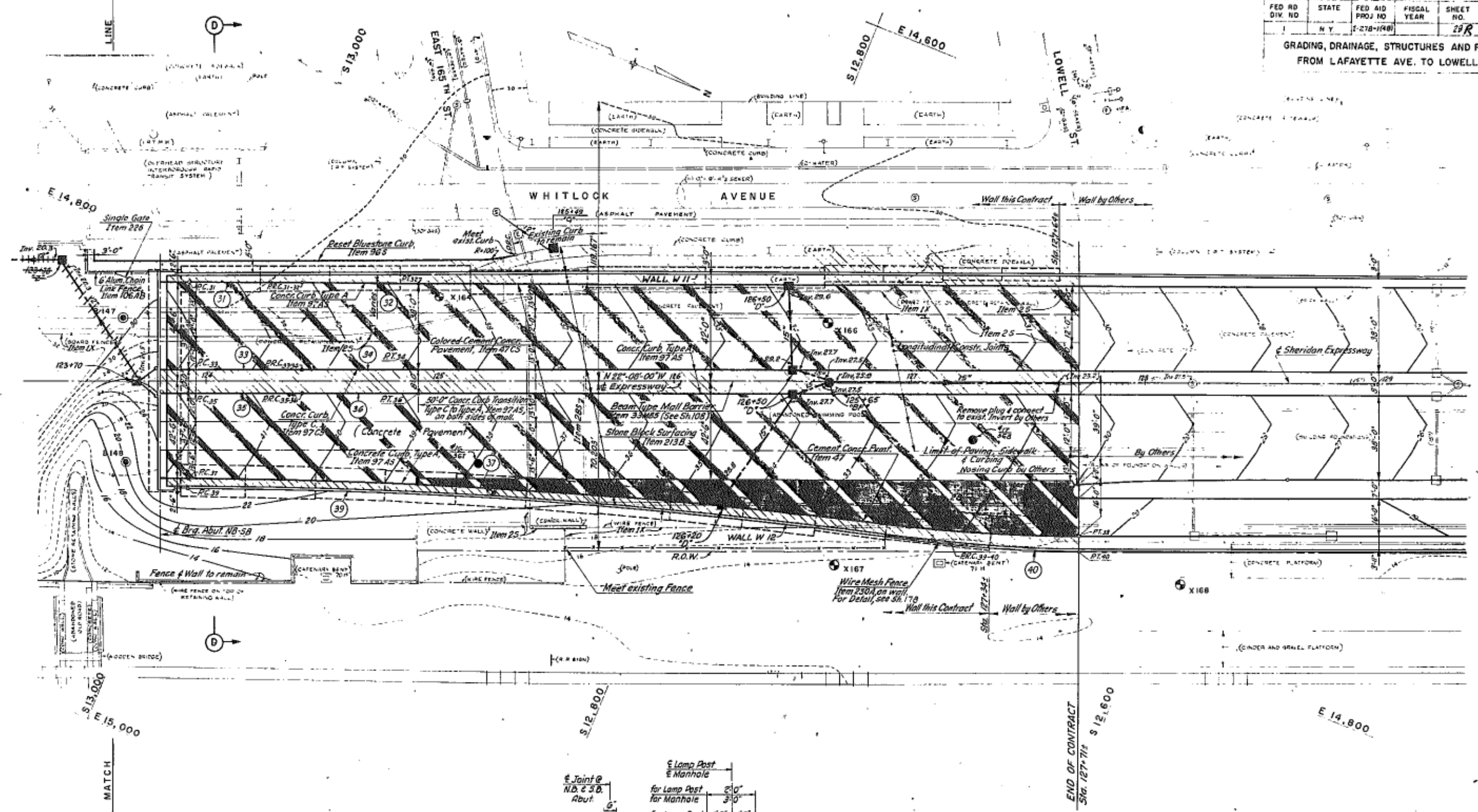
In Charge of R.B.K.
Made by S.R.M.
Traces by E.H.
Checked by H.M.S., S.G.G. & L.H.

CORRECT
AS BUILT

BRUCKNER EXPRESSWAY SECTION I			
SURFACE & SUBSURFACE PLAN STA. 117+60 SB TO STA. 123+60			
DRAWING NO.	SCALE	DATE	SHEET NO.
10740	1"=20'	3-21-60	288/1
HOWARD, NEEDLES, TAMM & LENDRUP CONSULTING ENGINEERS NEW YORK KANSAS CITY			

FIRE 60-1

CONTRACT NO. 3					
FED RD DIV. NO.	STATE	FED AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
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GRADING, DRAINAGE, STRUCTURES AND PAVING FROM LAFAYETTE AVE. TO LOWELL ST.					

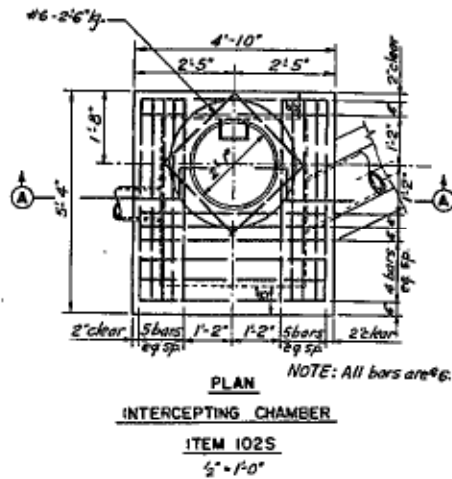


NOTES:
See Sheets 21 & 30

In Charge of R.B.K.
Made by W.B.
Traced by E.H.
Checked by H.M.S., S.G.G., L.H.

BRUCKNER EXPRESSWAY			
SECTION I			
SURFACE & SUBSURFACE PLAN			
STA. 123+60 TO STA. 127+71			
DRAWING NO.	SCALE	DATE	SHEET NO.
2-17	1"=20'	3-3-50	29R
HOWARD, NEEDLES, TAMMEN & BERGENOFF CONSULTING ENGINEERS NEW YORK KANSAS CITY			

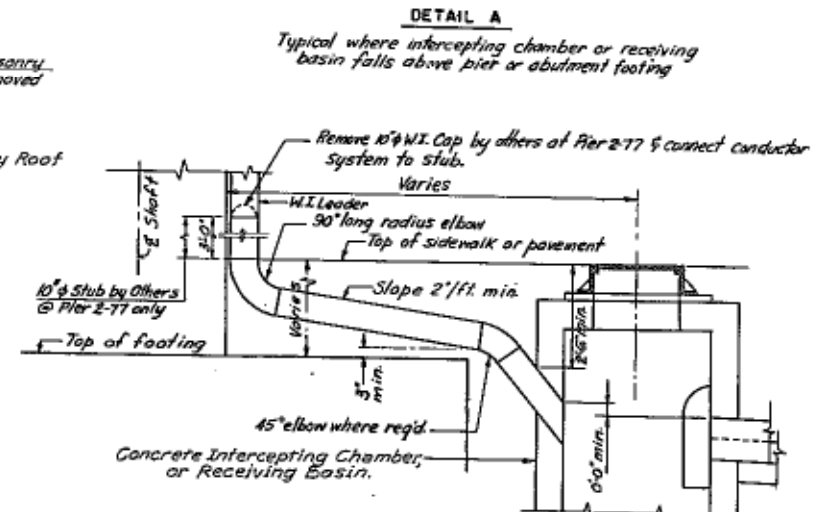
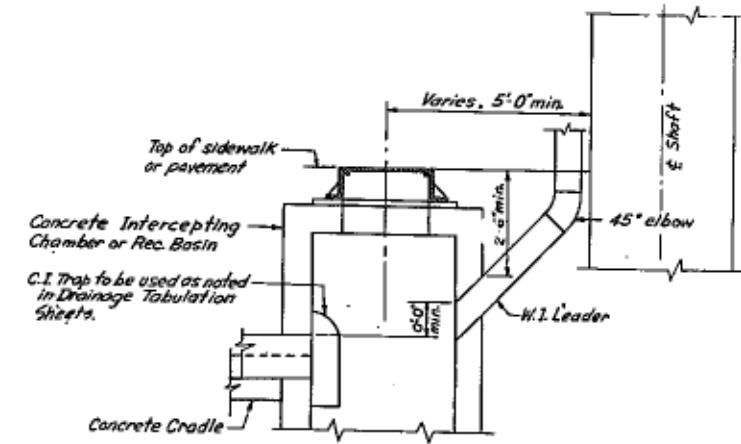
CONTRACT NO. 3				
FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.
1	N.Y.	5-275-1448		30
TOTAL SHEETS 245				
GRADING, DRAINAGE, STRUCTURES AND PAVING FROM LAFAYETTE AVE. TO LOWELL ST.				



NOTE: For the structures listed below reference is made to Current Standard Sheets, President of the Borough of Bronx, as follows:

Structure	Item No.	Designation in Plans	Standards, President of Borough of Bronx, Title of Struct.	Standard Sheet No.
Manhole	102 S	Type BA	Shallow Manhole Details for 12" to 42" Vit Pipe	1A
Manhole	102 S	Type BD	Intersection Manhole for Pipe Sewers 6" to 18" diam.	4
Manhole	102 S	Type BE	Intersection Manhole for Pipe Sewers 20", 24" & 30" diam.	4
Manhole	102 S	Type BF	Drop Manhole where drop is less than 5'-0"	5
Cradles	22		Standard Details for Sewers	92
Head	305	Head Type I	Cast Iron Manhole Head	6
Head	305	Head Type II	Cast Iron Receiving Basin Head	22
Rec. Basin	102 S	Type G	Standard Receiving Basin, Type G	29
Inlet Frame	305		Cast Iron Frame & Plane Grating for Type G Basin	30
C.I. Trap	305	Trap	Cast Iron Trap for Receiving Basin	19A
Rec. Basin	102 S	Type GM	Modified Type G Receiving Basin	29A

* Inverts for Type G & GM Receiving Basins will be as noted on the plans or as directed by the Engineer where no Invert Elevation is shown. All other dimensions will be as shown on Std. Sheets.
 ** Type BF Manhole may be used for drops of over 5' for storm sewers.



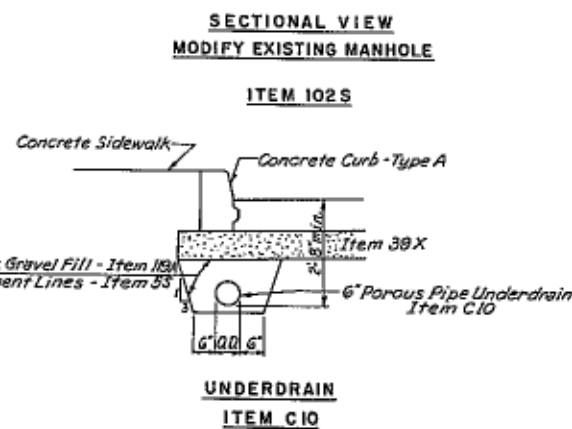
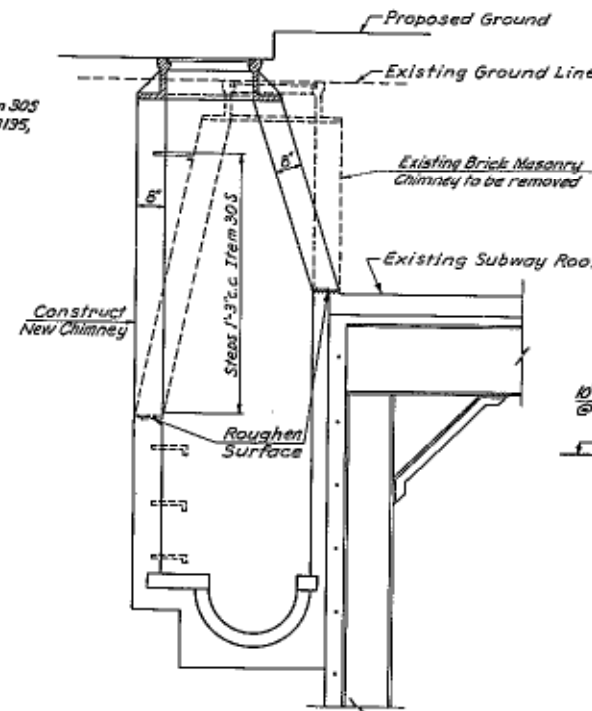
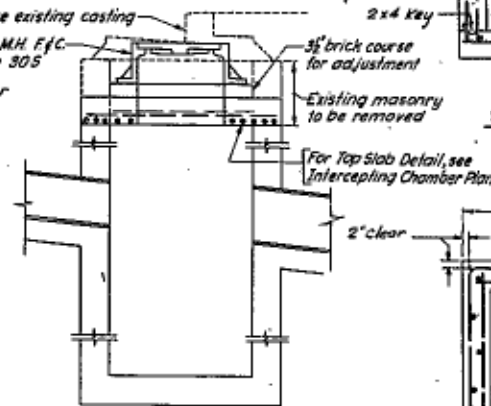
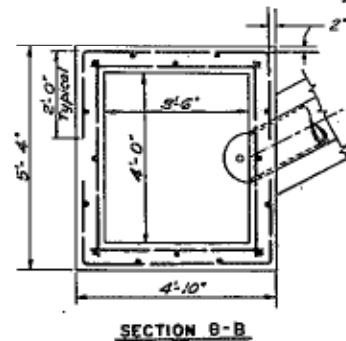
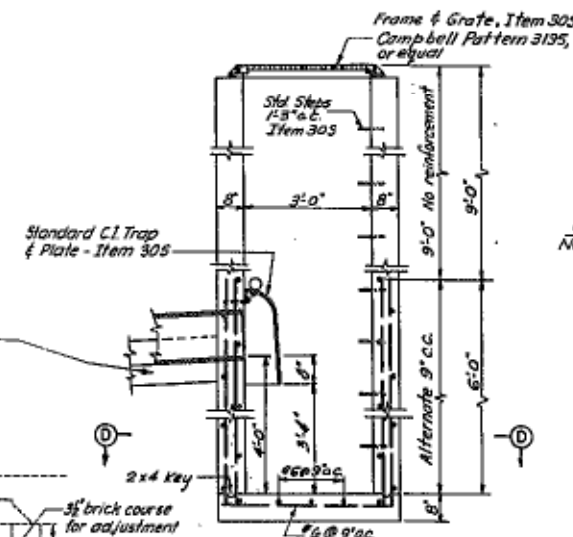
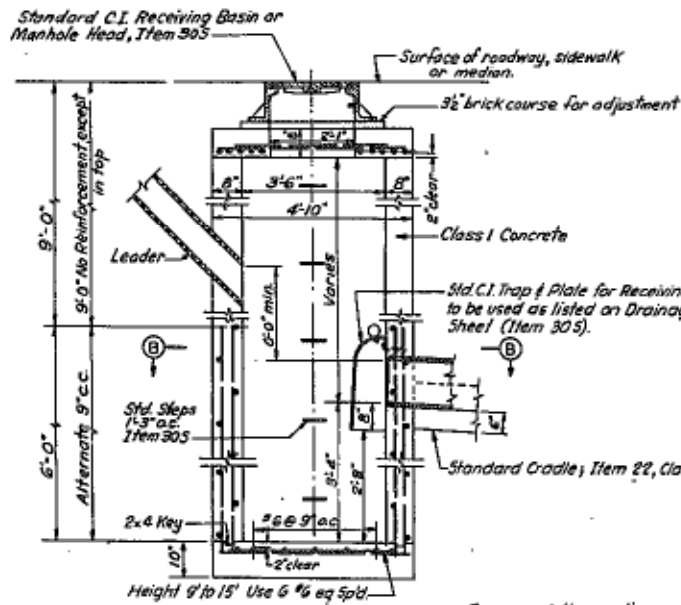
GENERAL DRAINAGE & UTILITY NOTES:

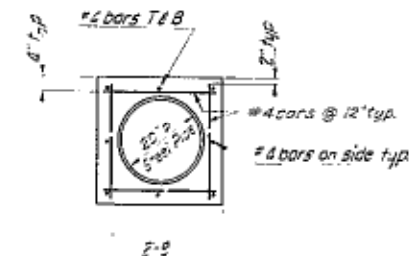
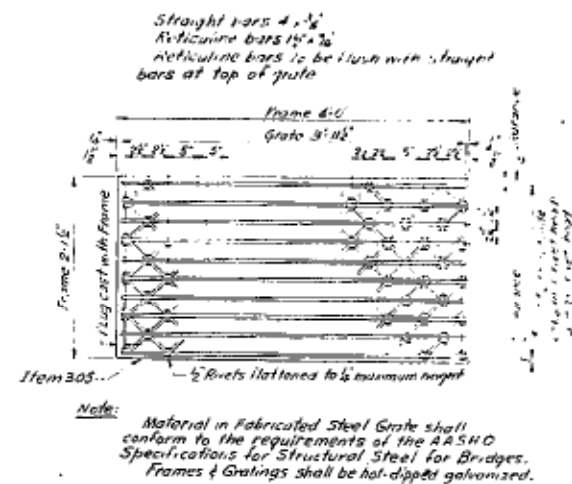
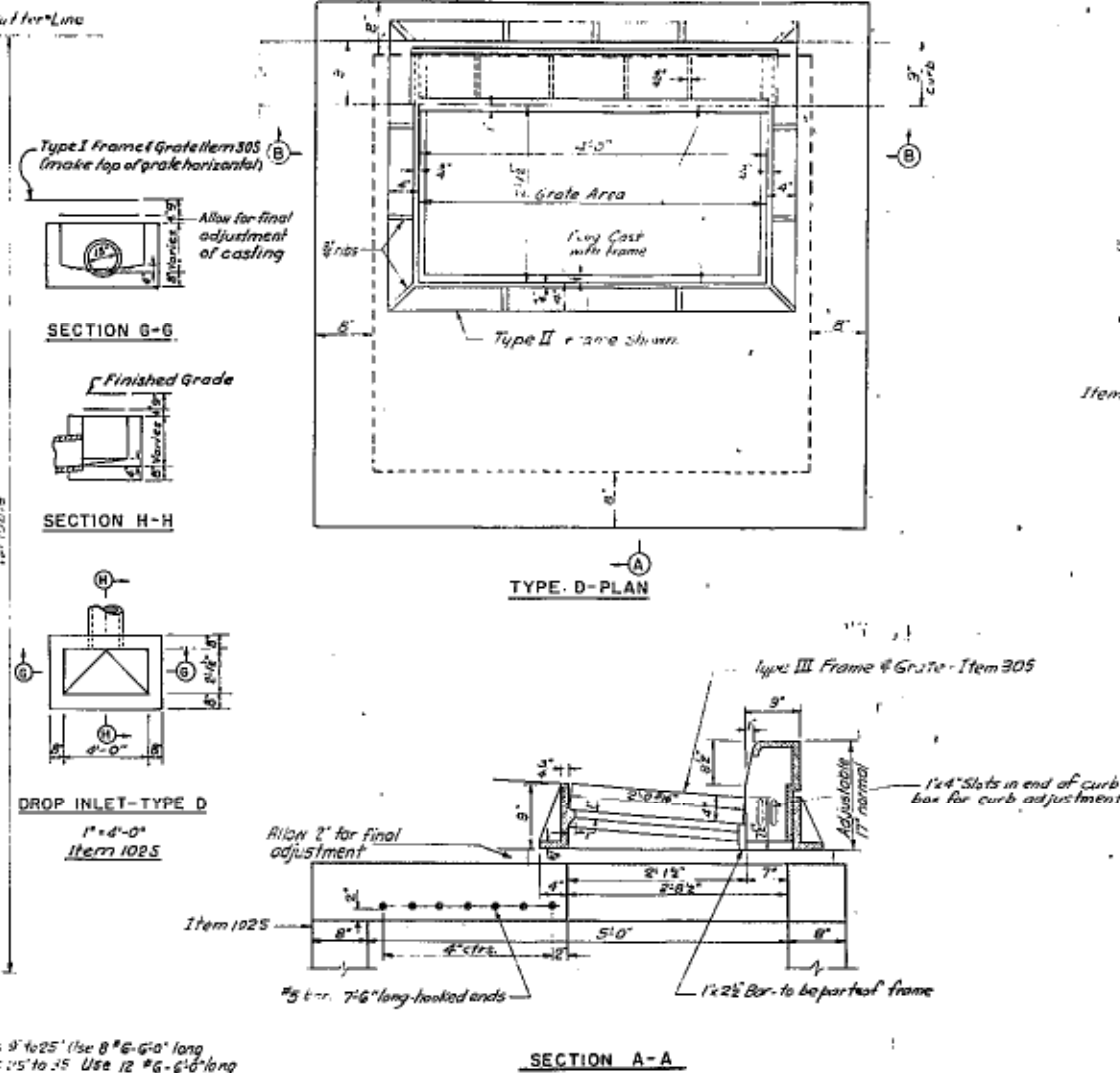
- All pipe to be reinforced concrete culvert pipe (Item 14) unless otherwise indicated.
- All water mains to be Cast Iron Pipe (Item 373) unless otherwise indicated.
- All water mains are to be placed so as to have a minimum cover of approximately four feet, unless otherwise noted.
- All Type D Drop Inlets shall have a Type III Cast Frame and Fabricated Steel Frame unless otherwise noted.
- All Type BE, Type BD, Type BF and Type BA Manholes shall have a Type I Cast Iron Manhole Head if they are located in the pavement and a Type II Cast Iron Receiving Basin Head if they are located in the median or sidewalk areas.
- All sewer pipes in earth shall be laid on concrete cradles (Item 22) and the trench backfilled with selected material (Item 26F-B) as shown on Sheet 23.
- All sewer pipes laid in rock, shall be bedded on selected material (Item 26F-B), and the trench backfilled with selected material (Item 26F-B) as shown on Sheet 23.
- The location of all underdrains shown on the plans is schematic. For true location, see typical underdrain section.
- When new sewers and water mains are installed outside grading and paving limits as indicated on the plans, the following additional payment items shall apply:
 - Replacing removal of street pavements - Concrete Foundation for Pavement, Item 46 S, and Asphalt Concrete, Item 51 M.
 - Replacing removal of sidewalks - Concrete Sidewalk, Item 105 S.

BRUCKNER EXPRESSWAY SECTION I

DETAILS OF DRAINAGE STRUCTURES

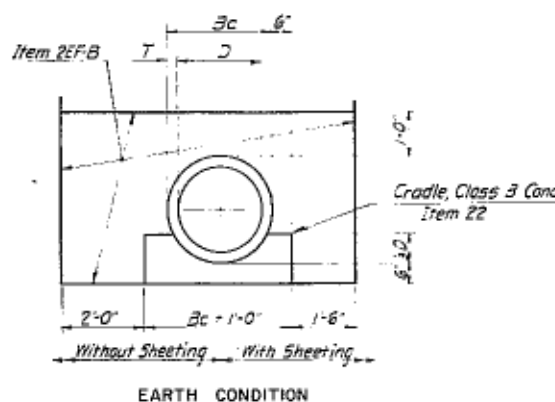
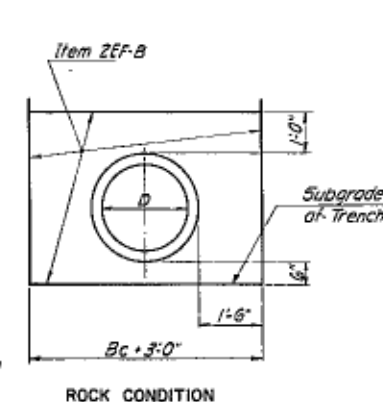
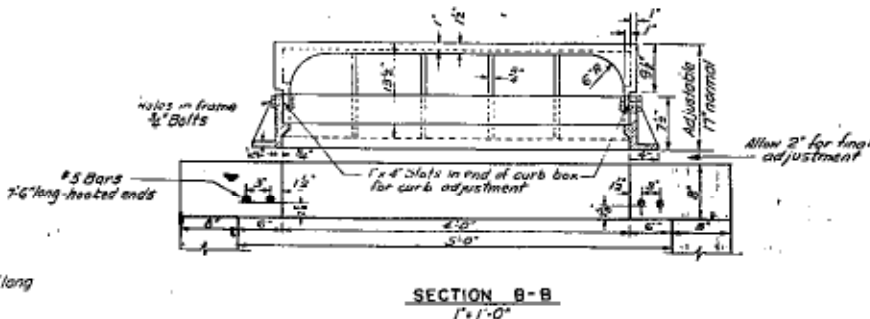
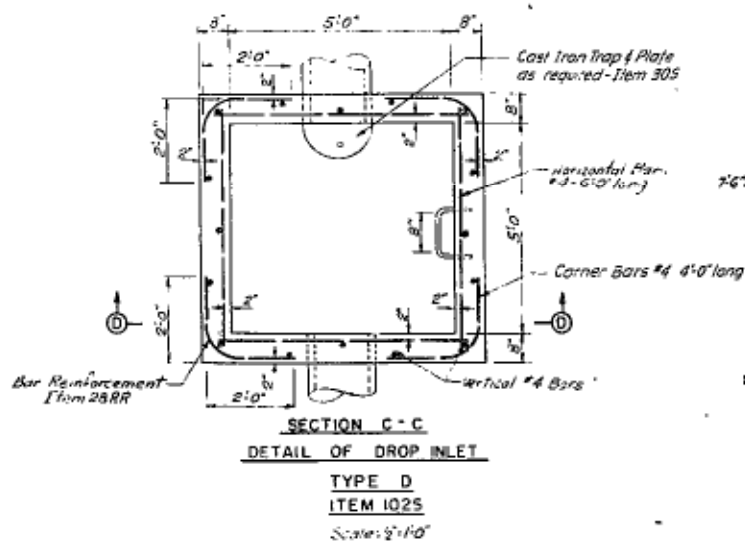
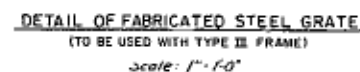
DRAWING NO.	SCALE	DATE	SHEET NO.
3-6-23	1" = 1'-0"	3-31-50	30
HOWARD, NEEDLES, TAMM & BERENSON CONSULTING ENGINEERS NEW YORK			
BARCLAY CITY			





CONCRETE PROTECTION FOR WATER MAINS

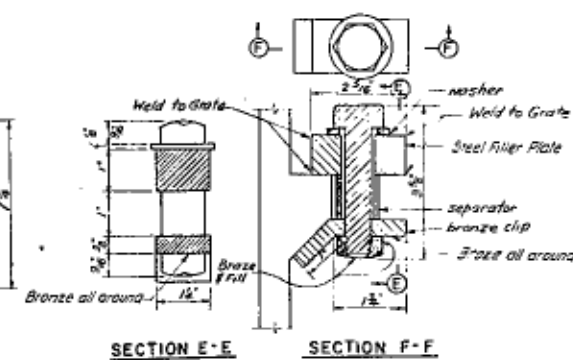
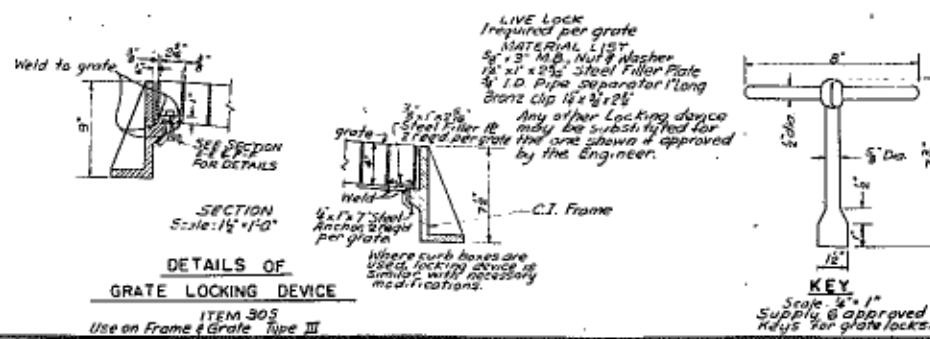
Class/A concrete and reinforcing steel for water main protection to be paid as Item 185 and Item 288R respectively.



PAYMENT LINES FOR ITEM 2EF-B
 2' x 1'-0"

NOTES:

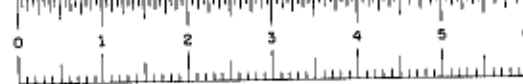
1. Each grate and cover shall be set evenly on the bearing lugs of its frame, so that no vertical movement or rocking occurs under traffic. Grates, covers and/or frames which can not be adjusted to meet this requirement will be rejected.
2. For other than the flat-faced steel grates, all manhole covers, frames, curb bases and cast gratings shall meet the requirements of ASTM Specifications for:
Steel Castings serial designation A27 Grade 65-55,
Iron Castings serial designation A48 Class 20, or
Malleable Iron Castings serial designation A47 Grade 32510, at the contractor's option.



In Charge of HSK
Made by FFR & BGL
Traced by FFR & BGL -
Checked by RD & SIM

G. BRECHT
as SUBJ

BRUCKNER EXPRESSWAY			
SECTION I			
DETAILS OF DRAINAGE STRUCTURES			
DRAWING NO. 3-6-23a	SCALE As Shown	DATE 5-31-50	SHEET NO. 3181
HOWARD, NEEDLES, TAMMEN & BERENSON CONSULTING ENGINEERS			
NEW YORK	KANSAS CITY		



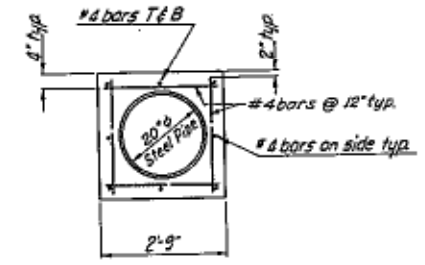
F I B E 60001

F.I.B.E. 60-1

CONTRACT NO. 3

FED. RD. DIV. NO.	STATE	FED. AID PROJ. NO.	FISCAL YEAR	SHEET NO.	TOTAL SHEETS
1	N.Y.	P-278-1(60)		31	245

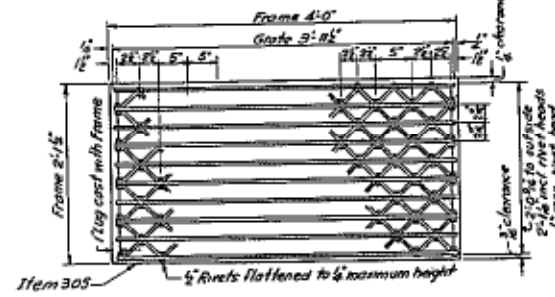
GRADING, DRAINAGE, STRUCTURES AND PAVING
FROM LAFAYETTE AVE. TO LOWELL ST.



CONCRETE PROTECTION FOR WATER MAINS

Class A concrete and reinforcing steel for water main protection to be paid as Item 189 and Item 288R respectively.

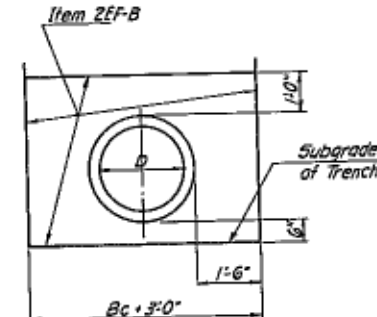
Straight bars 4"x8"
Reticuline bars 1/2"x3/4"
Reticuline bars to be flush with straight bars at top of grate.



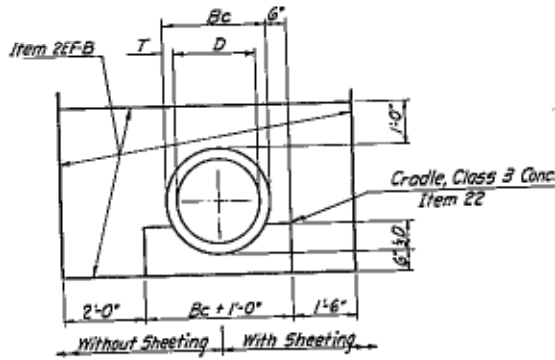
Note: Material in Fabricated Steel Grate shall conform to the requirements of the A.A.S.H.O. Specifications for Structural Steel for Bridges. Frames & Gratings shall be hot-dipped galvanized.

DETAIL OF FABRICATED STEEL GRATE

(TO BE USED WITH TYPE III FRAME)
Scale: 1"=1'-0"



ROCK CONDITION



EARTH CONDITION

PAYMENT LINES FOR ITEM 2EF-B

1/2"=1'-0"

NOTES:

- Each grate and cover shall be set evenly on the bearing lugs of its frame, so that no vertical movement or rocking occurs under traffic. Grates, covers and/or frames which can not be adjusted to meet this requirement will be rejected.
- For other than the Fabricated Steel Grates, all manhole covers, frames, curb bases and cast gratings shall meet the requirements of A.S.T.M. Specifications for: Steel Castings serial designation A27 Grade 65-35, Iron Castings serial designation A48 Class 20, or Malleable Iron Castings serial designation A47 Grade 32510, at the contractor's option.

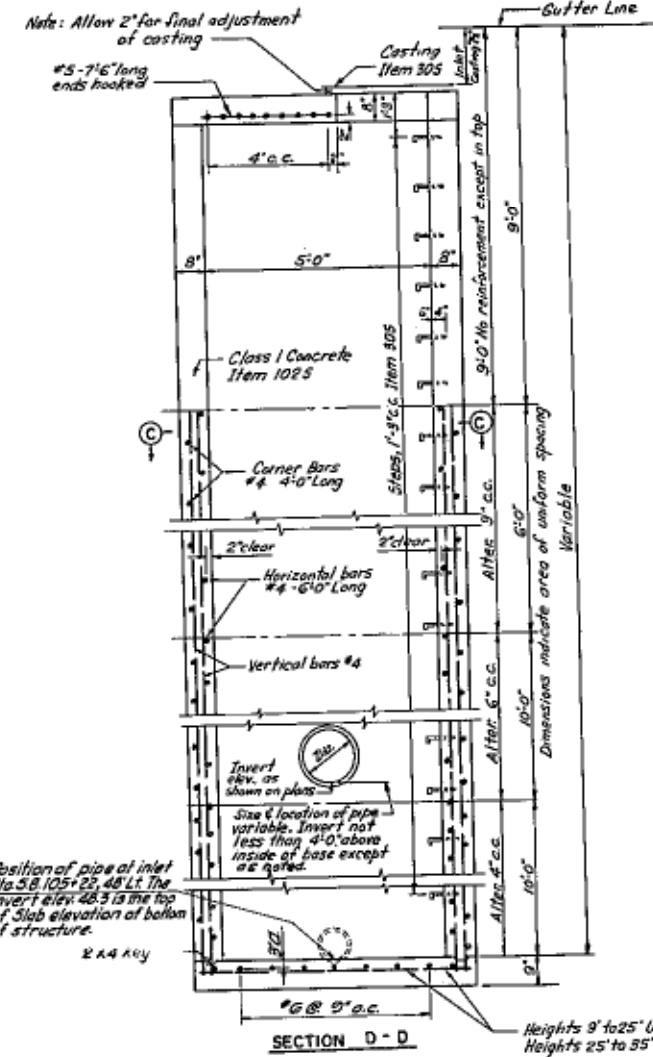
BRUCKNER EXPRESSWAY

SECTION I

DETAILS OF DRAINAGE STRUCTURES

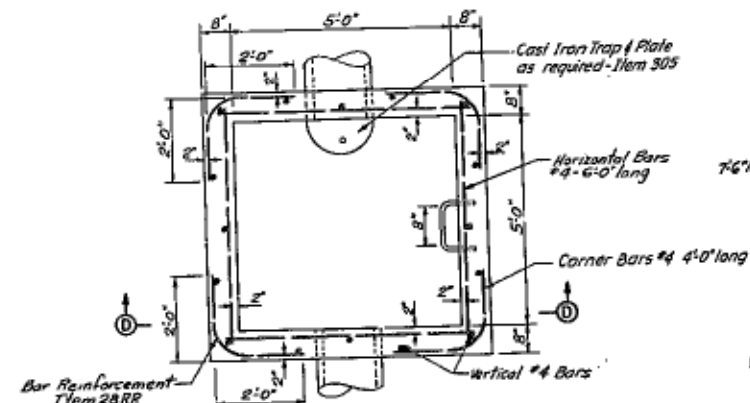
DRAWING NO.	SCALE	DATE	SHEET NO.
3-6-23a	As Shown	3-31-60	31

HOWARD, NEEDLES, TAMM & BERENSON
CONSULTING ENGINEERS
NEW YORK KANSAS CITY



SECTION D-D

Heights 9' to 25' Use 8" x 6" x 0" long
Heights 25' to 35' Use 12" x 6" x 0" long



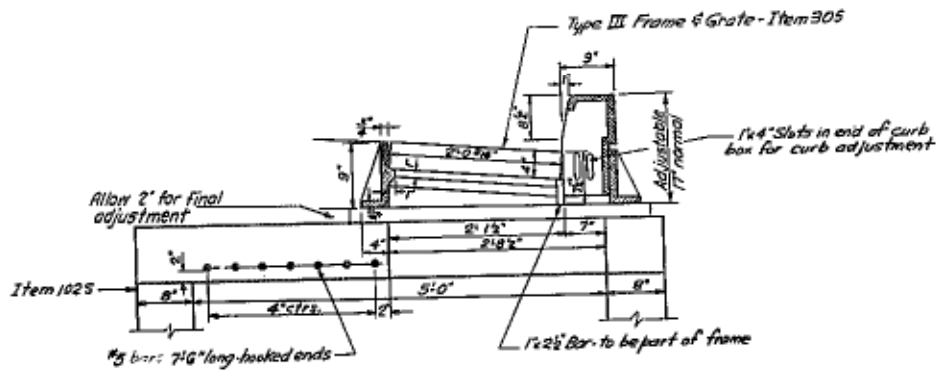
SECTION C-C

DETAIL OF DROP INLET

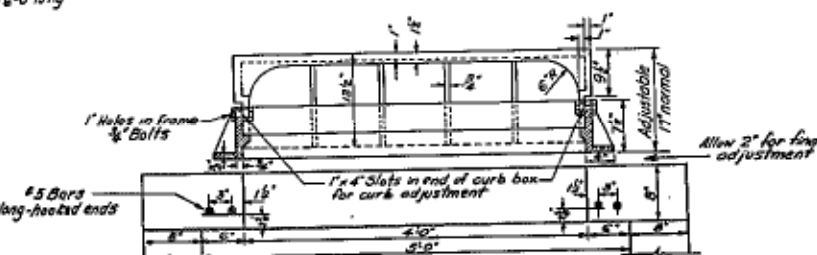
TYPE D

ITEM 1025

Scale: 1/2"=1'-0"

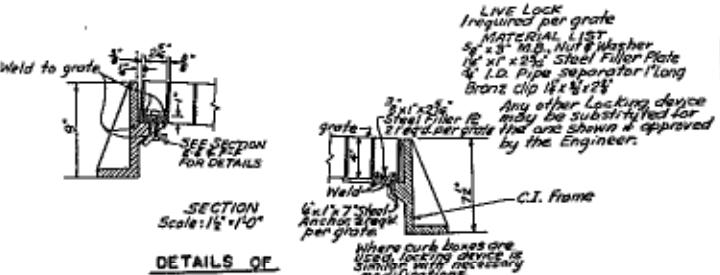


SECTION A-A



SECTION B-B

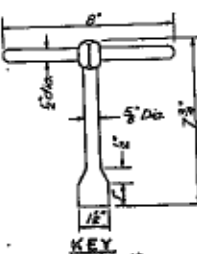
1/2"=1'-0"



DETAILS OF GRATE LOCKING DEVICE

ITEM 305

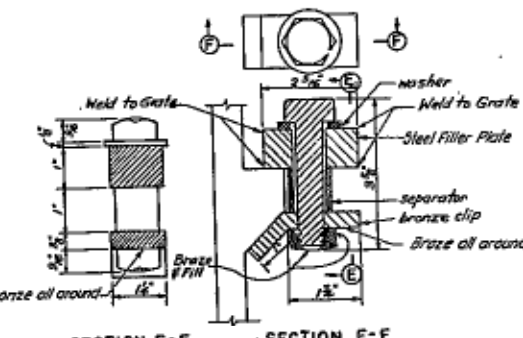
Use on Frame & Grate Type III



SECTION E-E

Scale: 1/2"=1'-0"

Supply & approved keys for grate locks.



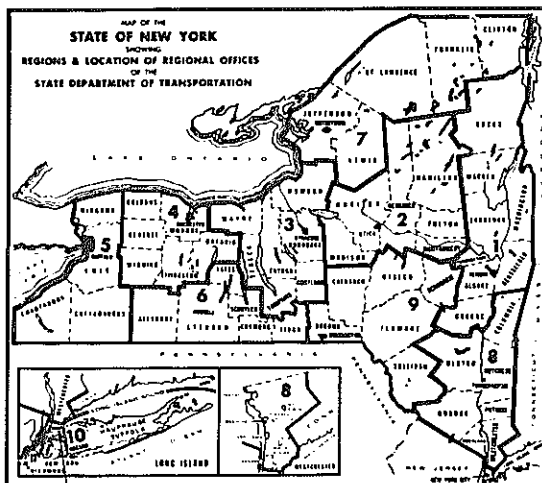
SECTION F-F

In Charge of R.B.
Made by R.F.R. & L.L.
Traced by R.F.R. & L.L.
Checked by R.D. & S.L.M.

Appendix E – As-Built Records for NYCT Subway Tunnels

(REDACTED)

Appendix F – As-Built Records for Contract D252685



STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
OFFICE OF ENGINEERING

REHABILITATION OF ROUTE I-278 VIADUCT EAST OF TRIBORO BRIDGE
STATE HIGHWAYS BE 57-3, BE 58-4 AND BE 60-1
IN NEW YORK CITY

BRONX COUNTY

90 SHEETS

CONTRACT D252685

F.A. PROJECT IR-278-1 (238)

RECORD PLANS

STANDARD SHEETS

502-1R2, 502-7R2, 619-3R3, 619-4R2, 644-3, 644-4,
644-5, 644-6, 644-7, 645-7, 645-8R1, 645-13R1,
645-14R2

ALL WORK CONTEMPLATED UNDER THIS CONTRACT IS TO BE COVERED BY
AND IN CONFORMITY WITH THE SPECIFICATIONS OF JANUARY 2, 1955,
AS AMENDED BY ADDENDA NOS. 1 AND 2, EXCEPT AS MODIFIED ON THESE
PLANS AND IN THE ITEMIZED PROPOSAL.

WHEREVER ON THESE PLANS OR IN THE PROPOSAL THE
"OLD ITEMS" LISTED BELOW APPEAR THE "NEW ITEMS"
SHALL APPLY.

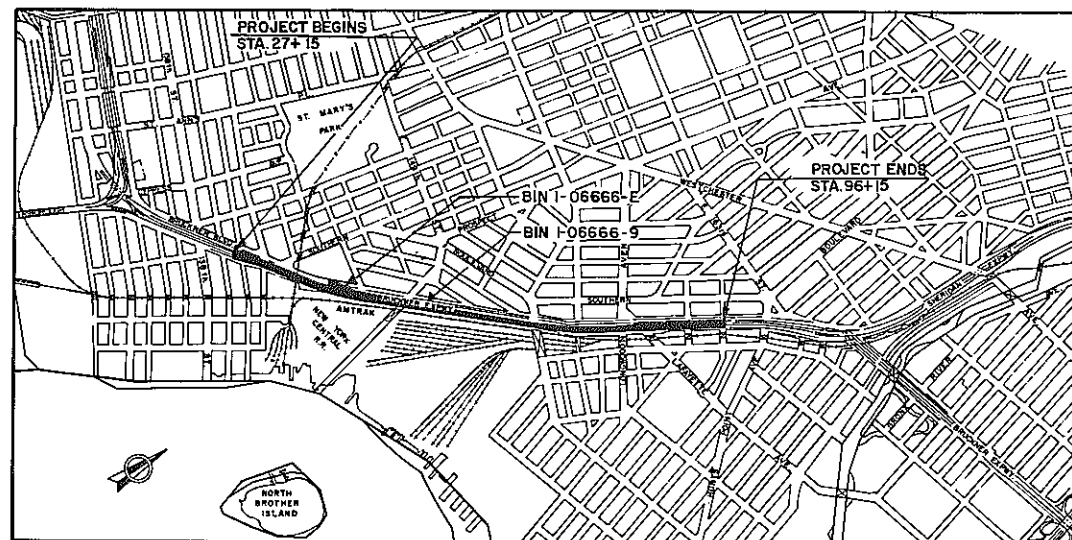
OLD ITEM	NEW ITEM
11001	11566.0105
11002	11566.0205
11003	11587.10
11004	11587.20
11005	11587.30

"CHANGES MADE TO THESE PLANS AND RELATED
CONTRACT DOCUMENTS SINCE COMPLETION BY THE
CONSULTING ENGINEER MAY BE DETERMINED BY
COMPARISON WITH SUCH PRELIMINARY PLANS AND
RELATED DOCUMENTS FILED AT THE REGIONAL
OFFICE OR THOSE FILED AT THE OFFICE OF THE
CONSULTING ENGINEER."

AS-BUILT REVISIONS

CONTRACT INFORMATION ADDED
John J. Lenehan 04-3929 7/9/89
SIGNATURE DATE

CONTRACTOR'S NAME DeFoe Corporation
AWARD DATE 08/25/89
COMPLETION DATE 09/29/92
FINAL ACCEPTANCE DATE 11/18/92
REGIONAL DIRECTOR M. MICHAEL FRANCESSE, P.E.
Name
ENGINEER IN CHARGE JOHN J. LENEHAN, P.E.
Name
FINAL COST TOTAL \$ 24,649,978.96
FISCAL SHARE COST(S)
01 \$ 24,641,753.44
02 \$ 8,225.52



LOCATION PLAN
SCALE: 1/4"=1000'

THE CONTRACT LIMITS ARE TO BE THE NORTH BOUND ENTRANCES FROM THE TRIBORO BRIDGE-BRONX APPROACH AND
THE MAJOR DEEGAN EXPRESSWAY IN THE VICINITY OF ST. ANN'S AVE. AND THE SOUTHBOUND APPROACHES FROM THE
SHERIDAN EXPRESSWAY IN THE VICINITY OF JENNINGS STREET AND THE SOUTHBOUND BRUCKNER EXPRESSWAY ENTRANCE
AT UNDERHILL AVENUE.

NEW YORK CITY MAINTENANCE NOTE

ALL WORK DONE UNDER THIS CONTRACT, WHEN COM-
PLETED, WILL BE MAINTAINED BY THE CITY OF NEW
YORK IN ACCORDANCE WITH THE HIGHWAY LAW BY
ARTICLE 12, SECTION 340B IF INTERSTATE, AND BY
ARTICLE 12B, SECTION 349C IF ARTERIAL.

ALL EXISTING SANITARY AND OTHER SEWERS NOT DEEM-
ED TO BE PART OF THE PROJECT BY THE COMMISSIONER,
WATER MAINS, HYDRANTS, AND OTHER MUNICIPAL OR
PRIVATELY-OWNED FACILITIES WITHIN THE LIMITS OF
THE R.O.W. WHICH REMAIN IN SERVICE UNCHANGED, AND
ALL SUCH FACILITIES RELOCATED OR PROTECTED AS
PART OF THE WORK PERFORMED UNDER THE PROJECT
WHETHER CROSSING, LOCATED WITHIN, OR ADJACENT
TO THE R.O.W., SHALL BE MAINTAINED, AS THE CASE
MAY BE, BY THE MUNICIPALITY, OR BY THE AGENCY OR
UNIT HAVING CONTROL OR JURISDICTION THEREOF, AT
NO COST OR EXPENSE TO THE STATE.

APPROVED PURSUANT TO THE PROVISIONS OF ARTICLE
12B, SECTION 349C, OF THE HIGHWAY LAW BY THE
MAYOR OF THE CITY OF NEW YORK.

APPROVED *[Signature]* 2/27/89
ROSS SANDLER
COMMISSIONER
DEPARTMENT OF TRANSPORTATION
CITY OF NEW YORK

APPROVED BY *[Signature]* 2/23/89
HARRY KAMANIS, P.E.
DEPUTY ASSISTANT COMMISSIONER
OFFICE OF CONSTRUCTION COORDINATION
DEPARTMENT OF TRANSPORTATION
CITY OF NEW YORK

THE SERVICE LIFE OF THE CITY OWNED UTILITIES TO
BE REPLACED AS SHOWN ON THE PLANS, HAS NOT BEEN
EXTENDED.

PREPARED AND RECOMMENDED BY
BLAUVELT ENGINEERING CO.

RECOMMENDED BY

RECOMMENDED BY

RECOMMENDED BY

H.C. Margolis 12-20-88
H.C. MARGOLIS P.E.

J.M. Manzillo 1/31/89
REGIONAL DIRECTOR OF OPERATIONS
J.M. MANZILLO P.E.

M.M. Francesse 2/21/89
REGION II - REGIONAL DIRECTOR
M. MICHAEL FRANCESSE, P.E.

Fred P. Pascope 2-21-89
REGIONAL DIRECTOR OF CONSTRUCTION
F. PASCOPELLA P.E.

RECOMMENDED BY
R. Schmalz 2-17-89
REGIONAL DESIGN ENGINEER
R. SCHMALZ P.E.

RECOMMENDED BY
E. J. Petrou 2/3/89
REGIONAL CONSTRUCTION ENGINEER
E. J. PETROU P.E.

RECOMMENDED BY
A. Edelstein 1/31/89
REGIONAL MAINTENANCE ENGINEER
A. EDELSTEIN P.E.

RECOMMENDED BY
F. Lin 1/31/89
REGIONAL TRAFFIC ENGINEER
F. LIN P.E.

RECOMMENDED BY
W. Deitch 12/27/88
REGIONAL STRUCTURES ENGINEER
I. DEITCH P.E.

INDEX ON SHEET NO. 2

DEPARTMENT OF TRANSPORTATION FEDERAL HIGHWAY ADMINISTRATION

APPROVED:
DIVISION ADMINISTRATOR DATE

NEW YORK STATE DEPARTMENT OF TRANSPORTATION
Approved *[Signature]* 2-3-89
for Robert K. Radloff
J.R. LAMBERT Acting in his capacity as
Director, Facilities Design Division



Approved *[Signature]* 19 89
JOHN M. ROBB Acting in his capacity as
Director, Structures Division

APPROVED BY
[Signature] 2-27-89
SAMUEL I. SCHWARTZ, P.E.
CHIEF ENGINEER/
FIRST DEPUTY COMMISSIONER
DEPARTMENT OF TRANSPORTATION
CITY OF NEW YORK

NEW YORK STATE DEPARTMENT OF TRANSPORTATION
Approved *[Signature]* 19 89
RICHARD A. WITA Acting in his capacity as
Director, Operations Section

BRUCKNER EXPRESSWAY			
STATION 28+96.45 TO STATION 82+28.55			
BRONX COUNTY			
P.I.N. X729.99	B.I.N. I-06666-9		
FED ROAD REG. NO	STATE	SHEET NO	TOTAL SHEETS
1	NY	1R1	90
FEDERAL AID PROJECT NO. IR-278-1 (238)			
CAPITAL PROJECT IDENTIFICATION NO. X729.99.311			

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	1R-278-1 (238)	2R1	90
I-278 OVER VARIOUS LOCATIONS				
PIN X72999			BIN I-06666-9	
			BIN I-06666-E	

 SHEET NO.	DWG NO.	TITLE			
1R1	--	TITLE SHEET	50	STD-3	DECK JOINT RECONSTRUCTION DETAIL I
2R1	LD-1	LIST OF DRAWINGS	51	STD-4	DECK JOINT RECONSTRUCTION DETAIL II & III
3R1	Q-1	ESTIMATE OF QUANTITIES	52	STD-5	ARMORED DECK JOINT PLAN & SECTIONS
4R1	GN-1	GENERAL NOTES - I	53	STD-6	ARMORED DECK JOINT DETAILS
5R1	GN-2	GENERAL NOTES - II	54R1	SD-1	NEW CONCRETE SLAB & PARAPET AT DECK JOINTS
6R1	MT-1	MAINTENANCE OF TRAFFIC NOTES			
7R1	MT-2	SOUTHERLY PORTION - STAGE I	55R1	SD-2	SLAB SURVEY DETAILS & CONCRETE REPAIR DETAIL
8R1	MT-3	CENTRAL PORTION - STAGE I			
9R1	MT-4	NORTHERLY PORTION - STAGE I	56	SD-3	DETAILS FOR STRUCTURAL SLAB REPAIR PREPARATION
10R1	MT-5	SOUTHERLY PORTION - STAGE II			
11R1	MT-6	CENTRAL PORTION - STAGE II	57R1	SD-5	CONCRETE BLISTER DETAILS & SAFETY WALK TRANSITIONS
12R1	MT-7	NORTHERLY PORTION - STAGE II			
13R1	MT-8	SOUTHERLY PORTION - STAGE III	 58	SD-6	BEARING REPAIRS, REPAIR DETAIL FOR BOX GIRDER
14R1	MT-9	CENTRAL PORTION - STAGE III			
15R1	MT-10	NORTHERLY PORTION - STAGE III	59	AS-1	RAMP APPROACH SECTIONS
16R1	MT-11	SOUTHERLY PORTION - STAGE IV	60R1	AS-2	RAMP APPROACH DETAILS
17R1	MT-12	CENTRAL PORTION - STAGE IV	61R1	AB-1	RAMP RE ABUTMENT REPAIRS
18R1	MT-13	NORTHERLY PORTION - STAGE IV	62	SD-4	GORE TREATMENT AT RAMP RE
19R1	MT-14	SOUTHERLY PORTION - STAGE V	63R1	DP-1	DRAINAGE PLAN I
20R1	MT-15	CENTRAL PORTION - STAGE V	64	DP-2	DRAINAGE PLAN II
21R1	MT-16	NORTHERLY PORTION - STAGE V	65	DP-3	DRAINAGE PLAN III
22	MT-17	SOUTHERLY PORTION - STAGE VI	66R1	DD-1	DOWNSPROUTING LAYOUT
23	MT-18	CENTRAL PORTION - STAGE VI	67R1	DD-2	DOWNSPROUTING LAYOUT AND DETAILS
24	MT-19	NORTHERLY PORTION - STAGE VI	68R1	DD-3	DOWNSPROUTING DETAILS
25R1	MT-20	SOUTHERLY PORTION - STAGE VII	69R1	STD-2	BRIDGE DRAIN DETAILS
26R1	MT-21	CENTRAL PORTION - STAGE VII	70	SD-7	SUPPORT DETAIL FOR SIGN STRUCTURE
27R1	MT-22	NORTHERLY PORTION - STAGE VII	71R1	SD-8	SUPPORT DETAIL FOR SIGN IN MEDIAN & CONTINUITY PLATE DETAIL
28R1	MT-23	DETAILS - I			
29R1	MT-24	DETAILS - II	72	SD-644-1R1	OVERHEAD SIGN STRUCTURE, SINGLE CANTILEVER SIGN STRUCTURE
30R1	MT-25	DETAILS - III			
31	MT-26	DETAILS - IV	73R1	SD-644-2	OVERHEAD SIGN STRUCTURE, SPAN TYPE STRUCTURE
32	MT-27	DETAILS - V			
33	MT-28	DETAILS - VI			
34	MT-29	TABLE OF TEMPORARY SIGNS - I	74R1	SP-1	STRIPING PLAN I
35	MT-30	TABLE OF TEMPORARY SIGNS - II	75R1	SP-2	STRIPING PLAN II
36R1	MT-31	TABLE OF TEMPORARY SIGNS - III	76R1	SP-3	TABLE OF PERMANENT SIGNS
37R1	GP-1	GENERAL PLAN I	77	BL-1	BAR BENDING DIAGRAM
38R1	GP-2	GENERAL PLAN II	78R1	BL-2	BAR LIST I
39R1	GP-3	GENERAL PLAN III	79R1	BL-3	BAR LIST II
40R1	GP-4	GENERAL PLAN IV	80R1	BL-4	BAR LIST III
41R1	GP-5	GENERAL PLAN V	81R1	E-1	WIRING PLAN, DIAGRAM & LIGHTING NOTES
42	G-1	GEOMETRY PLAN I	82R1	E-2	ELECTRICAL DISTRIBUTION PLAN I
43	G-2	GEOMETRY PLAN II	83R1	E-3	ELECTRICAL DISTRIBUTION PLAN II
44	G-3	GEOMETRY PLAN III	84R1	E-4	ELECTRICAL DISTRIBUTION PLAN III
45	VP-1	MAINLINE PROFILE	85R1	E-5	ELECTRICAL DISTRIBUTION PLAN IV
46	VP-2	RAMP 'RE' PROFILE	86R1	E-6	ELECTRICAL DISTRIBUTION PLAN V
47R1	TS-1	TYPICAL SECTIONS	87R1	E-7	LIGHTING DETAILS I
48R1	FP-1	KEY FRAMING PLAN	88R1	E-8	LIGHTING DETAILS II
49R1	STD-1	PARAPET & MEDIAN BARRIER DETAILS	89	E-9	ELECTRICAL LIGHT BRACKET DETAILS FOR SIGN STRUCTURES
			90R1	E-10	ELECTRICAL DETAILS FOR SIGN STRUCTURES

AS-BUILT REVISIONS



REVISED SHEET NUMBERS.

THIS SHEET (#56) IS REPLACED
BY SHEET # 58A1R1John D. Lenczak 043929
SIGNATURE7/7/93
DATE

LIST OF DRAWINGS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
BRUCKNER EXPRESSWAYBLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS, NEW YORK, N.Y.

DRAWING NO.	SCALE	DATE	SHEET NO.
LD-1	NONE	12/27/88	2R1

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	1R-278-1 (238)	3 R1	90

I-278 OVER VARIOUS LOCATIONS
PIN X729.99 BIN I-06666-9 BIN I-06666-E

ITEM NO.	DESCRIPTION	UNIT	QTY.
950.10	FA-BACKUP VEHICLE TO PROVIDE PROTECTION FOR CORE DRILLING OPERATION.	LS	100
950.11	A-PROTECTION SHIELD AT LONGITUDINAL JOINT IN MEDIAN (TO REMAIN IN PLACE)	SF	8252
950.12	A-TRAFFIC SIGN 60 INCH X 48 INCH, FURNISH ONLY	LS	100
950.13	A-REMOVAL AND INSTALLATION OF TRAFFIC WARNING SIGNS	LS	100
950.14	A-REMOVAL OF PAVEMENT MARKINGS	LF	3500
950.15	A-INSTALLATION OF PAVEMENT MARKINGS	LF	4000
950.16	A-BASIC MAINTENANCE AND PROTECTION OF TRAFFIC	LS	100

LEGEND

- 1 AS-BUILT QUANTITIES IN FINAL BOOK NO. 01
 2 DELETED AS PER AMENDMENT.
 3 MODIFIED AS PER AMENDMENT.
 4 MODIFIED AS PER ORDER-ON-CONTRACT.
 5 NEW ITEMS ADDED TO THE CONTRACT.

AS - BUILT REVISIONS

SEE LEGEND ABOVE

John G. Tanahan 043929 7/7/95
SIGNATURE DATE

ESTIMATE OF QUANTITIES

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING NO.	SCALE	DATE	REGION
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ESTIMATE OF QUANTITIES

ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY
202.20	REMOVING OLD BITUMINOUS CONC OVERLAY	SY	23
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	CY	114
203.21	SELECT STRUCTURE FILL	CY	9
206.01	STRUCTURE EXCAVATION	CY	9
17304.1011	SUBBASE COURSE, TYPE 1011	CY	38
403.13	ASPHALT CONCRETE-TYPE 3 BINDER COURSE	T	39
403.1701	ASPH CONC - TYPE 6P TOP COURSE (HIGH FRICT) MARSHALL DESIGN	T	466
403.21	ASPHALT CONCRETE-TYPE 3 & LEVELING COURSE	T	4
407.0101	TACK COAT	GAL	62
502.04	CEMENT CONC PAVE REINFOR CL-C	CY	3
502.11	METAL REINF FOR CONC PVT. (LESS THAN 10 FT. WIDE)	SY	11
502.32	LONGITUDINAL JOINT TIES, (GROUT TYPE)	EA	103
502.33	LONGITUDINAL JOINT TIES, (CURBING)	EA	32
15502.4511	CEM CONC PAVT PRESS RELIEF JTS	LF	21
10502.5505	SAN CUT PORTLAND CEM CONC	LF	28,730
555.0103	CONC FOR STRUCT CLASS A (APPRT PLACEMENTS)	CY	518
555.0403	CONC FOR STRS - CLASS E (STR SLAB-SEPARATE WEAR SURFACE)	SF	14,260
555.0404	CONC FOR STRS - CLASS E (STR APR SLAB - INT WEAR SURFACE)	SF	664
16555.5503	PERM CONC TRAP BARRIER FOR STRUCT (SAFETY SHAPE 1/2 SECT)	LF	10,660
16555.6603	TRANSV SAN CUT GROOVING OF STRUCT SLAB SURFACE	SF	452,600
556.0201	UNCOATED BAR REINFORCEMENT FOR CONCRETE STRUCTURES	LB	2,890
556.0202	EPOXY-COATED BAR REINFORCE FOR STRUCTURES	LB	112,560
564.510001	STRUCTURAL STEEL	LB	27,700
564.510002	STRUCTURAL STEEL	LB	1,500
565.1101	TYPE S.R. EXPANSION BEARING (0 TO 100 KIP)	EA	3
565.1201	TYPE S.R. FIXED BEARING (0 TO 100 KIP)	EA	1
15565.4302	BRIDGE BEARING RESTORATION	EA	100
11566.0105	REPLACE SCUPPER GRATINGS-TYPE A	EA	116
11566.0205	REPLACE SCUPPER GRATINGS-TYPE B	EA	94
566.2001	DOWNPOUT SYSTEM (DUCTILE IRON)	LF	4,760
05566.25	REM & DISPOSE OF DOWNPOUT SYS	LF	4,610
15566.91	VERT ADJUST OF BR DRAINAGE DEVICES-1	EA	87
15566.92	VERT ADJUST OF BR DRAINAGE DEVICES-2	EA	71
16567.241101	HORIZONTAL JOINT SEALER PAD	LF	53
567.33	ARMORED JOINT SYSTEM WITH COMPRESSION SEAL - TYPE A3	LF	1,267
567.34	ARMORED JOINT SYSTEM WITH COMPRESSION SEAL - TYPE A4	LF	94
567.36	ARMORED JOINT SYSTEM WITH COMPRESSION SEAL - TYPE A6	LF	464
567.37	ARMORED JOINT SYSTEM WITH COMPRESSION SEAL, TYPE A7	LF	291
567.38	ARMORED JOINT SYSTEM WITH COMPRESSION SEAL, TYPE A8	LF	1,602
15567.60	REMOVAL EXIST STEEL JT SYSTEMS	LF	3,526

ESTIMATE OF QUANTITIES

ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY
570.07	ENVIRONMENTAL GROUND PROTECTION	LS	NEC
18570.09	TEMP STORE OF PAINT REM WASTE	BBL	20
18570.39	SHOP APPLIED STRUCT STEEL PAINT SYSTEM	LS	NEC
18570.81	MAINT CLEAN & EPOXY PRIMING (SPRAY PROHIBITED)	LS	NEC
18570.83	MAINT PAINT EPOXY INTERMEDIATE COAT (SPRAY PROHIBITED)	LS	NEC
18570.85	MAINT PAINT URETHANE FINISH COAT (SPRAY PROHIBITED)	LS	NEC
579.01	STRUCT SLAB SCARIFICATION	SF	465,960
579.02	REINF BAR EXPOSURE	SF	121,200
580.01	REMOVAL OF STRUCTURAL CONCRETE	CY	2,674
580.02	REMOVAL OF ST SUPPORT STRUCT SLAB (WITH SHEAR CONNECTORS)	SF	7,050
581.01	REMOVAL OF BITUMINOUS CONCRETE OVERLAY (BRIDGE)	SF	247,550
582.05	REM OF STRUCT CONC-REPL W/ CLASS A CONC	CY	1
582.06	REM OF STRUCT CONC-REPL W/ CLASS D CONC	SF	220
582.07	REM OF STRUCT CONC -REPL W/ VERT & OVERHD PATCH MATERIAL	SF	320
583.01	SHOTCRETE	B	50
584.0101	HIGH DENSITY CONC OVERLAY	SF	606,000
584.1101	LATEX MODF CONC OVERLAY	SF	606,000
585.01	STRUCTURAL LIFTING OPERATIONS TYPE A	EA	104
586.01	DRILL & GROUT BOLTS OR REINF BARS	LF	11,150
586.10	FIELD DRILL HOLES IN EXISTING STRUCTURAL STEEL	EA	232
11587.10	BRIDGE RAILING-POST REPLACEMENT	EA	5
11587.20	BRIDGE RAILING-RAIL REPLACEMENT	LF	217
11587.30	BRIDGE RAILING-TIGHTENING OF NUTS	LF	10,664
608.0101	CONCRETE SIDEWALKS & DRIVEWAYS	CY	72
619.01	BASIC MAINTENANCE & PROTECTION OF TRAFFIC	LS	NEC
619.02	CONSTRUCTION SIGNS	LS	NEC
15619.0303	FLASHING ARROW BOARDS	LS	NEC
619.0413	TYPE III CONSTRUCTION BARR	LF	40
619.0502	LIGHTING FOR CONSTRUCTION BARRICADES	LF	40
10619.0599	LIGHTING FOR TEMP CONC BARRIER	LF	14,250
619.15	PAVEMENT DELINEATION	LF	177,100
619.17	TEMPORARY CONC BARRIER	LF	84,500
15619.1905	WHITE REM REFLECT PAVT STRIPES	LF	61,600
15619.1906	YELLOW REM REFLECT PVT STRIPES	LF	29,580
15619.6802	TEMP INERTIAL BARRIER MODULE (400#)	EA	16
15619.6803	TEMP INERTIAL BARRIER MODULE (700#)	EA	8
15619.6804	TEMP INERTIAL BARRIER MODULE (1400#)	EA	24
15619.6805	TEMP INERTIAL BARRIER MODULE (2100#)	EA	12
633.0202	CLEAN EXIST PAVE AND/OR SHOULD	SY	23
634.01	SURVEY AND STAKEOUT	LS	NEC
634.03	CONC. CYLINDER CURING BOX	EA	1
637.07	ENGINEERS OFFICE - TYPE C	HO	38
15637.30	MICROCOMPUTER SYSTEM	LS	NEC
* OPTIONAL ITEMS			
16570.10	PAINT WASTE REMOVAL MATERIAL, NON-HAZARDOUS DISPOSAL	CY	315
11570.11	PAINT WASTE REMOVAL MATERIAL, HAZARDOUS DISPOSAL	CY	475
40584.1201	MICRO-SILICA CONCRETE OVERLAY	SF	606,000
619.1501	SHORT-TERM PAVEMENT MARKINGS	LF	177,100
NEW ITEMS			
09570.1290	A-TREATMENT OF PAINT REMOVAL WASTE	CY	475
950.01	A-MODIFY EXISTING STEEL SLIDING PLATE EXPANSION JOINT IN SIDEWALK	EA	5
950.02	A-MODIFY EXISTING STEEL TOOTHED EXPANSION JOINT IN SIDEWALK	EA	55

ESTIMATE OF QUANTITIES

ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY
644.0101	SINGLE CANTILEVER SIGN STRUCT	EA	1
644.0102	SINGLE CANTILEVER SIGN STRUCT	EA	1
644.0301	SINGLE SPAN SIGN STRUCTURE	EA	1
644.0302	SINGLE SPAN SIGN STRUCTURE	EA	1
645.14	OVERHEAD PANEL - ALUMINUM	SF	1,953
645.16	SECONDARY PANEL - ALUMINUM	SF	84
645.2052	TRAFFIC SIGN, 60 IN X 48 IN FURNISH & MOUNT PANEL ONLY	EA	12
645.258201	TRAF SIGN 18" WIDE RECTANGLE FUR & MNT PANEL ONLY	EA	12
11645.2596	STREET NAME SIGN 24" X 9" (NYC)	EA	12
11645.2599	STREET NAME SIGN 36"X9" (NYC)	EA	10
647.01	REMOVAL OF SIGNS - SIZE A (0 - 10 S.F.)	EA	50
647.03	REMOVAL OF SIGNS SIZE D (41-100 SF)	EA	4
647.13	RELOCATING SIGNS SIZE D (41 TO 100 SF)	EA	4
647.14	RELOCATING SIGNS SIZE E (OVER 100 SF)	EA	4
647.15	REMOVAL OF SIGNS-SIZE C (21-40 SF)	EA	2
647.16	REMOVAL OF SIGNS-SIZE E (OVER 100 SF)	EA	5
15647.20	REMOVAL OF CANTILEVER SIGN STRUCTURE	EA	1
11647.94	REM & STR OF SINGLE-SPAN SIGN STRUCTURE	EA	2
11654.4113	PORTABLE GUIDERAIL TRM IMPACT ATTENUATORS	EA	9
10654.51	REM STR & RESET LIQ FILLED CELL SANDWICHED ATTENUATOR	EA	1
11660.1013	CAST IRON JUNCT BX SURF MOUNT 12 IN X 12 X 8 IN (BUR G+E)	EA	62
11660.1103	CAST IRON JUNCT BOX, FLUSH MNTD SIZE 3 (B G+E)	EA	113
11661.0303	INSULATED CONDUCTOR, NO. 10 (BGLE)	LF	6,356
11661.0305	INSULATED CONDUCTOR, NO. 6 (BGLE)	LF	6,014
11661.0307	INSULATED CONDUCTOR, NO. 2 (BGLE)	LF	52,028
10670.0305	REMOVE & STORE LAMPPOST ASMBLY	EA	64
11670.112507	ALUM LMPST CONS OF 25'-0" SHFT 612'-0" BRKT ARM W/O TRANS BS	EA	113
11670.201601	CONDUIT HOT-DIP GALV ST PIPE INS ON STRUCT (BGLE) 1-1/2" D	LF	13,635
11670.2017	COND HOT-DIP GALV ST PI INSTAL ON STRUCT BGE 2 IN DIA	LF	100
11670.201801	CONDUIT HOT-DIP GALV ST PIPE INS ON STRUCT (BGLE) 3" DIA	LF	70
670.2403	FLEXIBLE CONDUIT 3 IN DIAM	LF	56
11670.28	FLEX METALLIC CONDUIT 2" DIA	LF	314
11670.5101	150 W HI PRESS SOD VAPOR LAMP & LUM(BUR OF G & E)	EA	113
11670.60	PHOTOELECTRIC CONTROL UNIT (BUR OF GAS & ELECTRICITY)	EA	7
11670.6002	REFURB & MODIFY EXIST ELECTRIC CONT CAB (BGLE)	EA	6
18685.0302	RAISED REFLECT PAVT MARKER (1-WAY YELLOW)	EA	200
18685.0303	RAISED REFLECT PAVT MARKER (1-WAY WHITE)	EA	610
18685.060104	WHITE EPOXY REFLECT PAVT STRIPES	LF	62,200
18685.060204	YELLOW EPOXY REFLECT PAVT STRIPES	LF	16,900
15699.0002	FUEL PRICE ADJUSTMENT	LS	NEC
699.04	MOBILIZATION	LS	NEC
950.03	A-PROTECTIVE SHIELD AT LONGITUDINAL JOINT IN MEDIAN	SF	30,160
950.04	A-CAST IRON JUNCTION BOX FLUSH MOUNTED, HEAVY DUTY COVER 12" X 8" X 8"	EA	10
950.05	FE-EMERGENCY REPAIRS AT LONGITUDINAL JOINT IN MED.	LS	NEC
950.06	A-SCUPPER FLANGE ATTACHMENT AND HANGER FOR DOWNPOUT PIPE	EA	158
950.07	A-BAR GRIP SYSTEMS COUPLERS	EA	640
950.08	FA-EMERGENCY REPAIRS AT LONGITUDINAL JOINT IN MED.	LS	100
950.09	FA-EMERGENCY REPAIR TO RAMP "NB"	LS	100

D252685

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	1R-278-1 (238)	63R1	90
1-278 OVER VARIOUS LOCATIONS				
PIN X729.99		BIN I-06666-E		
		BIN I-06666-E		

NOTES

1. FOR DOWNSPOUT LAYOUT AND DETAILS SEE DWG'S DD-1 TO DD-3
2. FOR BRIDGE DRAIN ADJUSTMENT AND NEW GRATING DETAILS SEE DWG. STD-2
3. REPLACEMENT OF EXISTING GRATINGS SHALL BE DONE PRIOR TO SHIFTING THE TRAFFIC.
4. THE ARROW AT PROPOSED SPLASH BLOCK DESIGNATES THE DIRECTION OF THE STORM FLOW.
5. LOCATION AND SIZES OF EXISTING SEWER ARE SHOWN BASED ON "AS BUILT" DRAWINGS OF THE EXISTING STRUCTURE BUILT UNDER THE CONSTRUCTION CONTRACT FIBE 57-3.
6. CONTOURS BASED ON CONTRACT FIBE 57-3.

LEGEND

- A EXIST. SCUPPER ON BRIDGE (LETTER DENOTES TYPE)
 □ B
 — NEW 12" DIA. DOWNSPOUT PIPING
 ↓ NEW 12" DOWNSPOUT WITH SPLASH BLOCK
 ○ NEW 12" DOWNSPOUT WITH EXIST. HOPPER
 □ EXIST. RECEIVING BASIN
 ○ S — EXIST. SEWER
 — W — EXIST. WATER MAIN
 = G = EXIST. GAS MAIN
 — 20 — EXIST. CONTOUR ON BRUCKNER BLVD.
- BELOW EXPRESSWAY

AS-BUILT REVISIONS

- ▲ ADDING EXISTING SCUPPER, TYPE - A (NOT SHOWN)

John D. Layman 04 2929 7/8/83
 SIGNATURE DATE

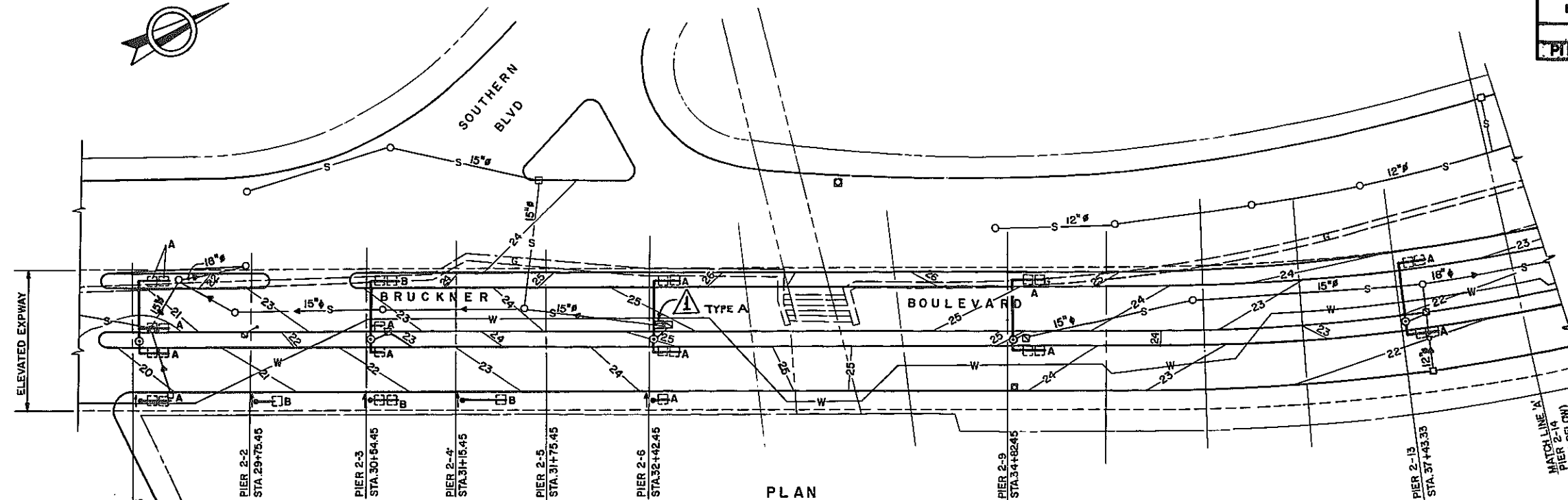
DRAINAGE PLAN I

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

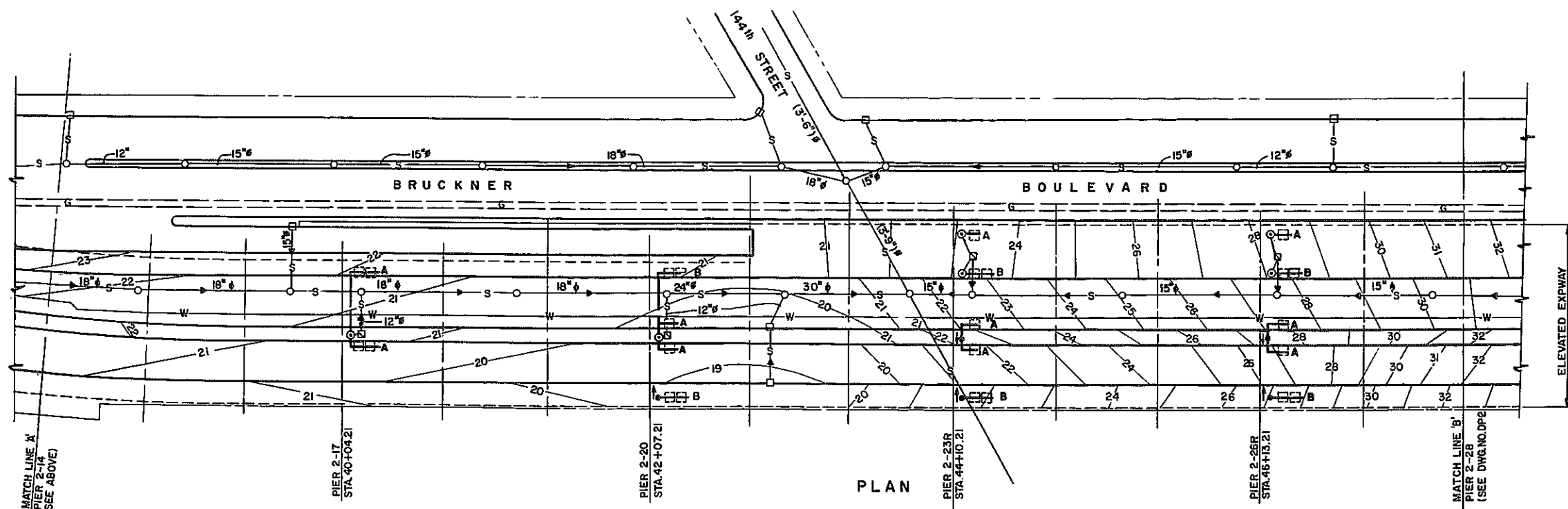
BRUCKNER EXPRESSWAY

BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS, NEW YORK, N.Y.

DRAWING NO. DP-1 SCALE 1" = 40'-0" DATE 12/27/88 SHEET NO. 63R1



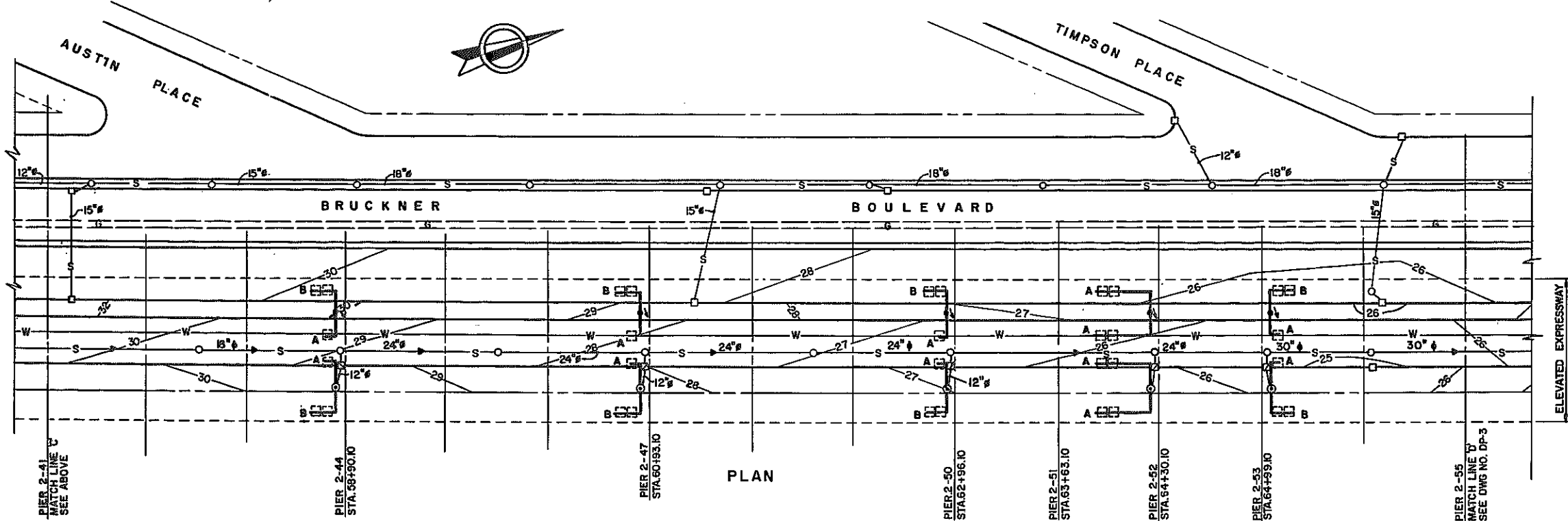
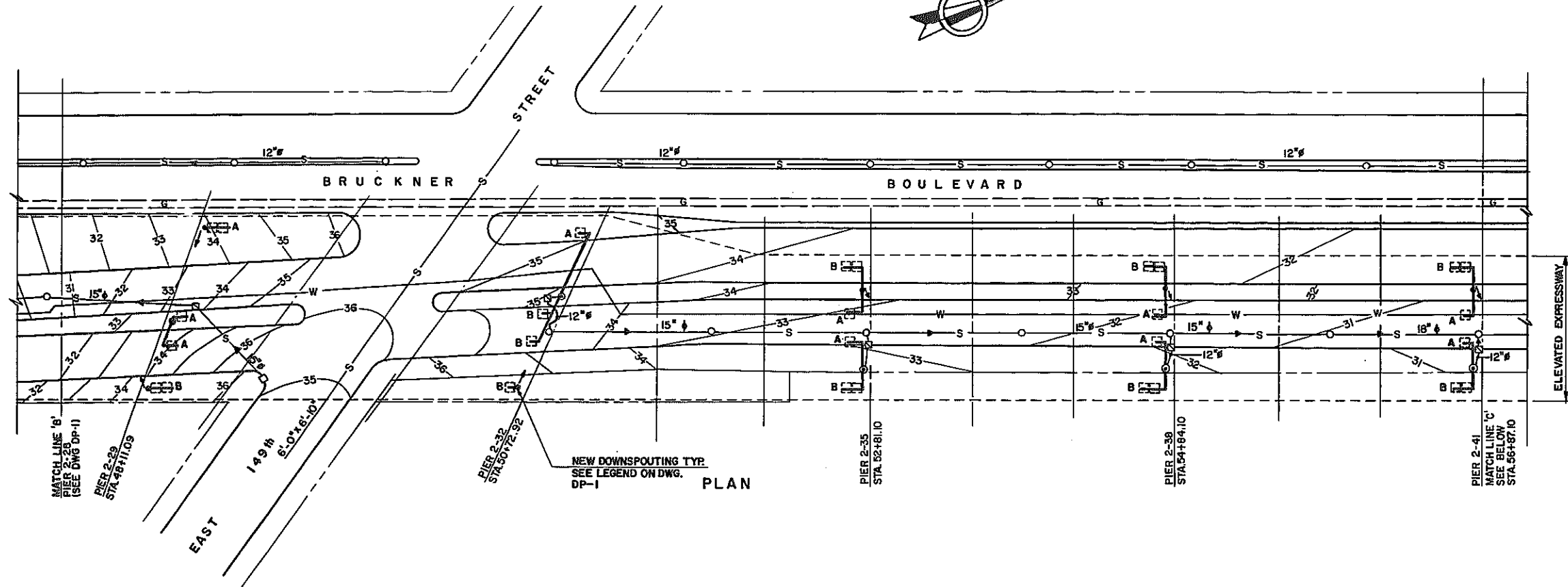
PLAN



PLAN

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	1R-278-1 (238)	64	90
1-278 OVER VARIOUS LOCATIONS				
PIN X729.95			BIN I-06666-9	
			BIN I-06666-E	

NOTE
FOR LEGEND AND NOTES SEE DWG. NO. DP-1



AS-BUILT REVISIONS

SIGNATURE

DATE

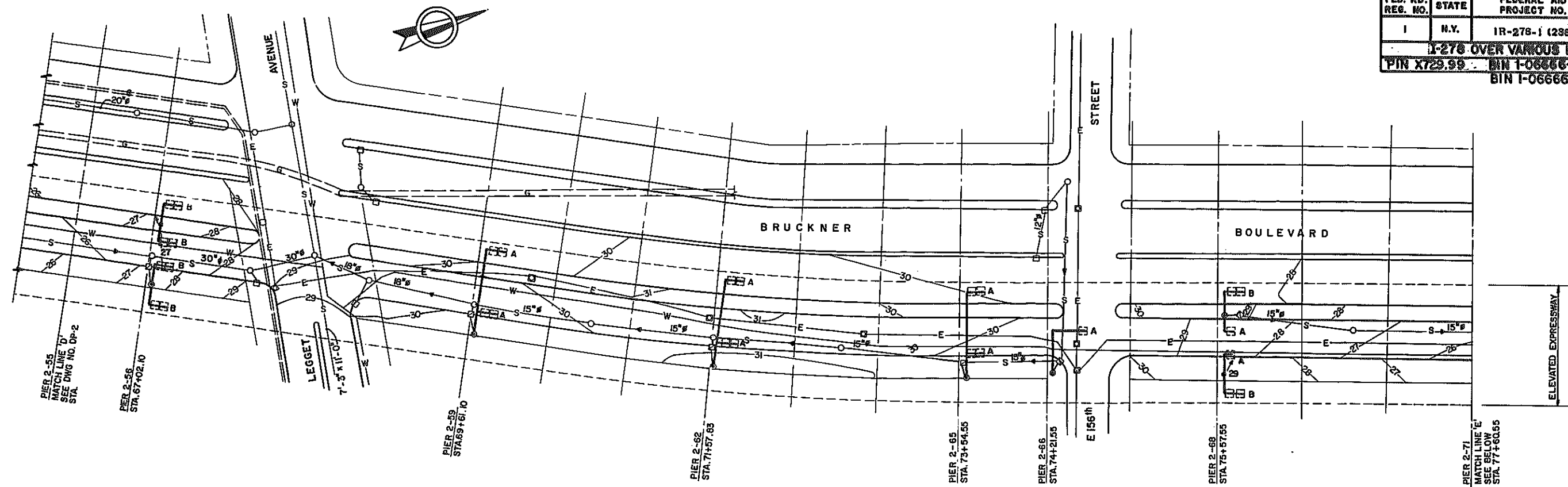
DRAINAGE PLAN II

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
BRUCKNER EXPRESSWAY

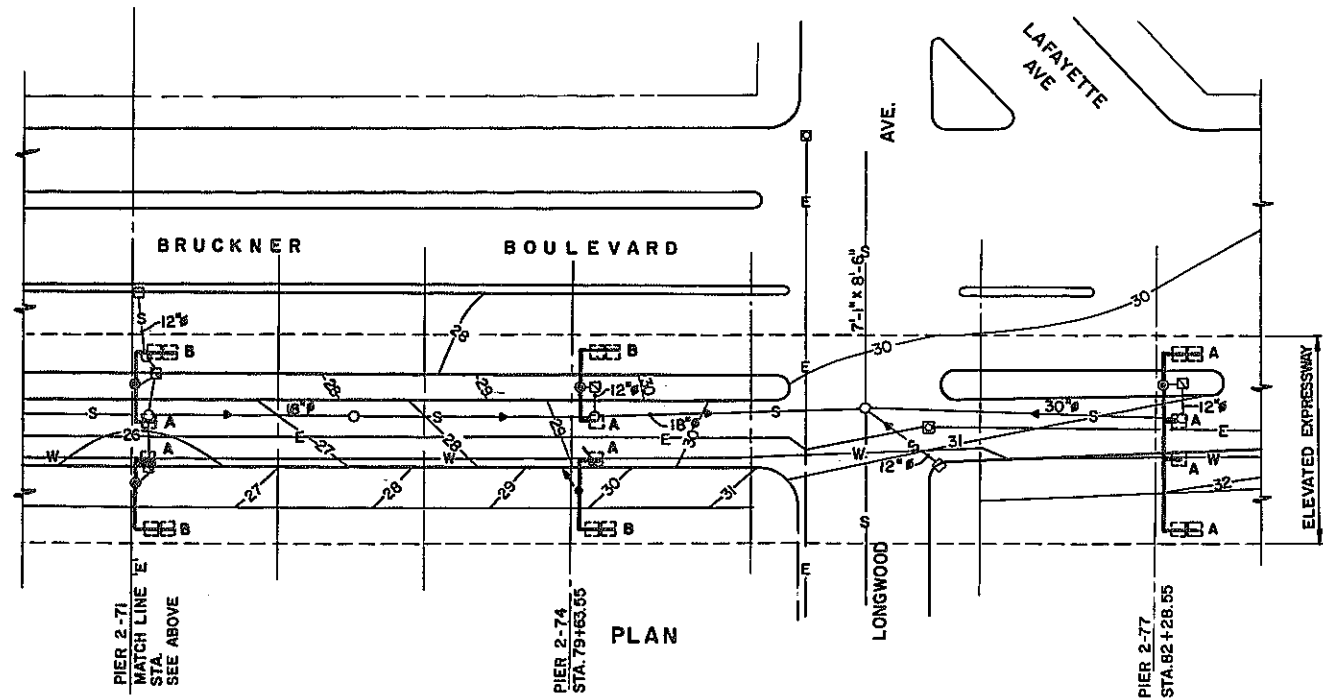
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS, NEW YORK, N.Y.

DRAWING NO.	SCALE	DATE	SHEET NO.
DP-2	1" = 40'-0"	12/27/88	64

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
I	N.Y.	1R-278-1 (238)	65	90
I-278 OVER VARIOUS LOCATIONS				
PIN X725.99 BIN 1-06666-9				
BIN 1-06666-E				



NOTE: FOR LEGEND AND NOTES SEE DWG. NO. DP-1



AS-BUILT REVISIONS

SIGNATURE

DATE

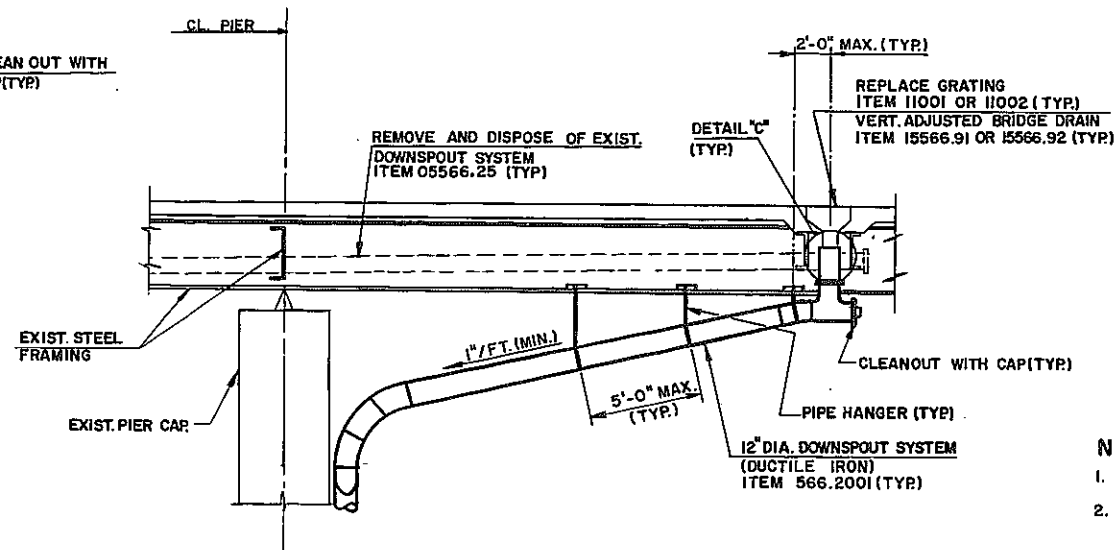
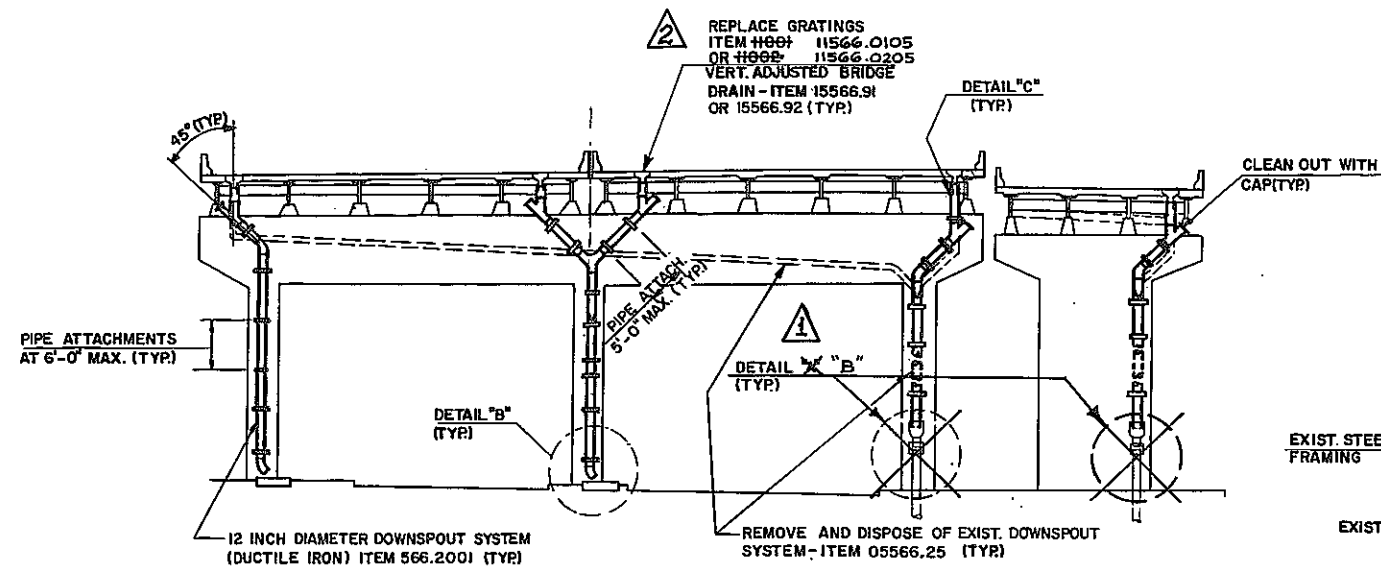
DRAINAGE PLAN III

STATE OF NEW YORK.
DEPARTMENT OF TRANSPORTATION
BRUCKNER EXPRESSWAY

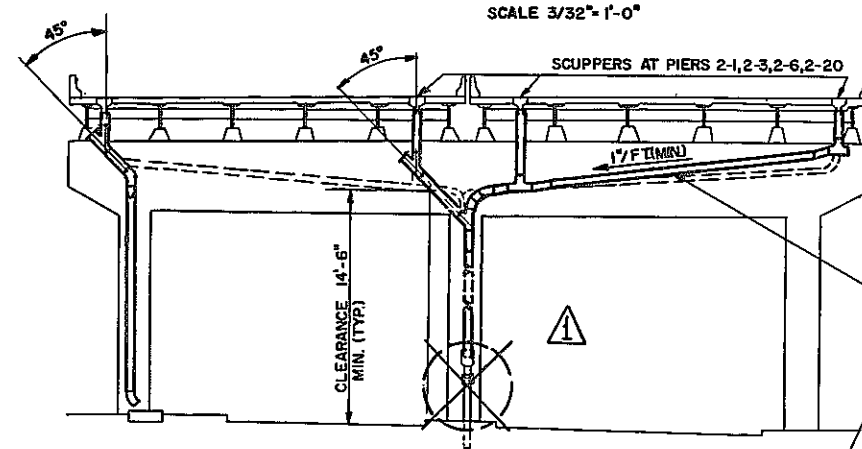
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS, NEW YORK, N.Y.

DRAWING NO.	SCALE	DATE	SHEET NO.
DP-3	1"=40'-0"	12/27/88	65

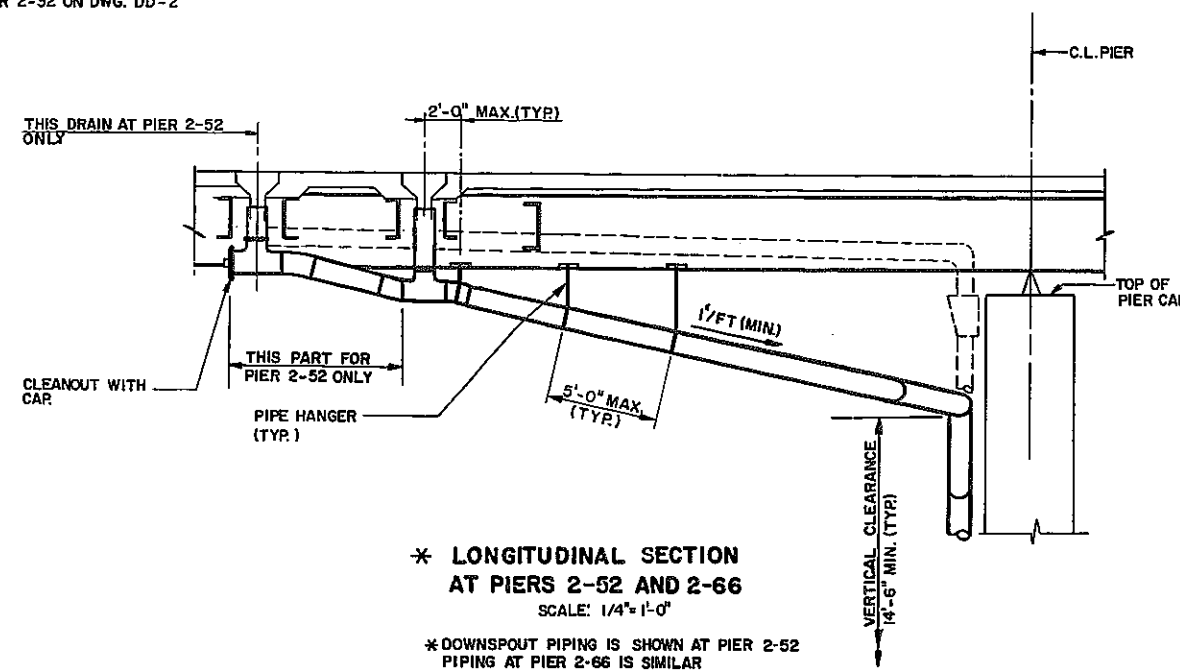
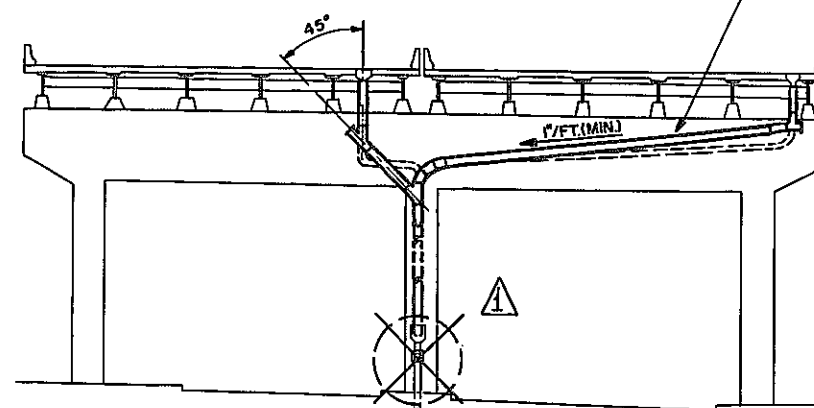
FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	1R-278-1 (288)	66R1	90
I-278 OVER VARIOUS LOCATIONS				
PIN X72992			BIN I-06666-E	
			BIN I-06666-E	



LONGITUDINAL SECTION
AT PIERS 2-2 AND 2-4
SCALE: 1/4" = 1'-0"



FOR PIPE HANGER ARRANGEMENT
SEE PIER 2-32 ON DWG. DD-2



NOTES:

- FOR DRAINAGE PLANS SEE DWG'S. DP-1 THRU DP-3.
- FOR DOWNSPOUT LAYOUT AT PIERS 2-29 THRU 2-77, DETAILS "A", "B" AND "C" SEE DWG. DD-2.
- FOR TYPICAL DOWNSPOUT DETAILS AND NOTES SEE DWG. DD-3.
- PIERS 2-1 THRU 2-26R ARE SHOWN LOOKING SOUTH.
- SPACING OF PIPE ATTACHMENTS SHOWN FOR PIERS 2-23 AND 2-26 TYPICAL FOR ALL PIERS. FOR DETAIL OF PIPE ATTACHMENT SEE DWG. NO. DD-3.

AS-BUILT REVISIONS

- DETAIL "A" REPLACED BY DETAIL "B"
 - NEW ITEMS
- John G. Lunsden 043929* 7/12/23
SIGNATURE DATE

DOWNSPOUTING LAYOUT

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

BRUCKNER EXPRESSWAY

BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS, NEW YORK, N.Y.

DRAWING NO. DD-1	SCALE AS SHOWN	DATE 12-27-88	SHEET NO. 66 R1
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In Charge of
Scale By
Traced By
Checked By

FED. RD. REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.	1R-278-1 (238)	68R1	90
I-278 OVER VARIOUS LOCATIONS				
PIN X729.99 BIN I-06666-9 BIN I-06666-E				

NOTES:

- REMOVAL AND DISPOSAL OF EXISTING DOWNSPOUTING SYSTEM PAID UNDER PRICE BID FOR ITEM 05566.25 "REMOVE AND DISPOSE OF DOWNSPOUT SYSTEM".
- INSTALLATION OF NEW DOWNSPOUT SYSTEM PAID FOR UNDER ITEM 566.2001 "DOWNSPOUT SYSTEM (DUCTILE IRON)" INCLUDES ALL REQUIRED SUPPORT MEMBERS.
- ALL NEW DOWNSPOUTING IS 12" DIA.
- FOR LAYOUTS OF NEW DOWNSPOUT, SEE DWG. NOS. DD-1 AND DD-2.
- FOR NEW GRATING AND BRIDGE DRAIN ADJUSTMENT DETAILS, SEE DWG. NO. STD-2.
- THE DOWNSPOUT LAYOUT AND DETAILS SHOWN ON DWGS DD-1, DD-2 AND DD-3 ARE GENERAL AND INDICATIVE OF THE ARRANGEMENT AND MATERIALS TO BE EMPLOYED FOR DOWNSPOUT PIPING. ACTUAL DETAILS EMPLOYED AT EACH LOCATION WILL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.
- FOR DETAILS "B" AND "C" SEE DWG. DD-2
- DUCTILE IRON PIPE SHALL CONFORM TO ASTM A377 (ANSI 21.51) CLASS 53.

ADDITION TO NOTE 10
SCUPPERS ARE CAST IRON NOT PAINTED WITH EPOXY COAL TAR.

- PAINTING OF NEW DOWNSPOUTING SHALL BE PAID FOR UNDER ITEM 18570.39 SHOP APPLIED STRUCTURAL STEEL PAINT SYSTEM.
- INSIDE SURFACES OF SCUPPERS TO BE PAINTED WITH TWO COATS OF COAL TAR EPOXY COATING. PAYMENT SHALL BE INCLUDED IN ITEMS 11566.91 & 11566.92

1

AS-BUILT REVISIONS

SEE LEGEND

John J. Sanchez 043929 7/6/93
SIGNATURE DATE

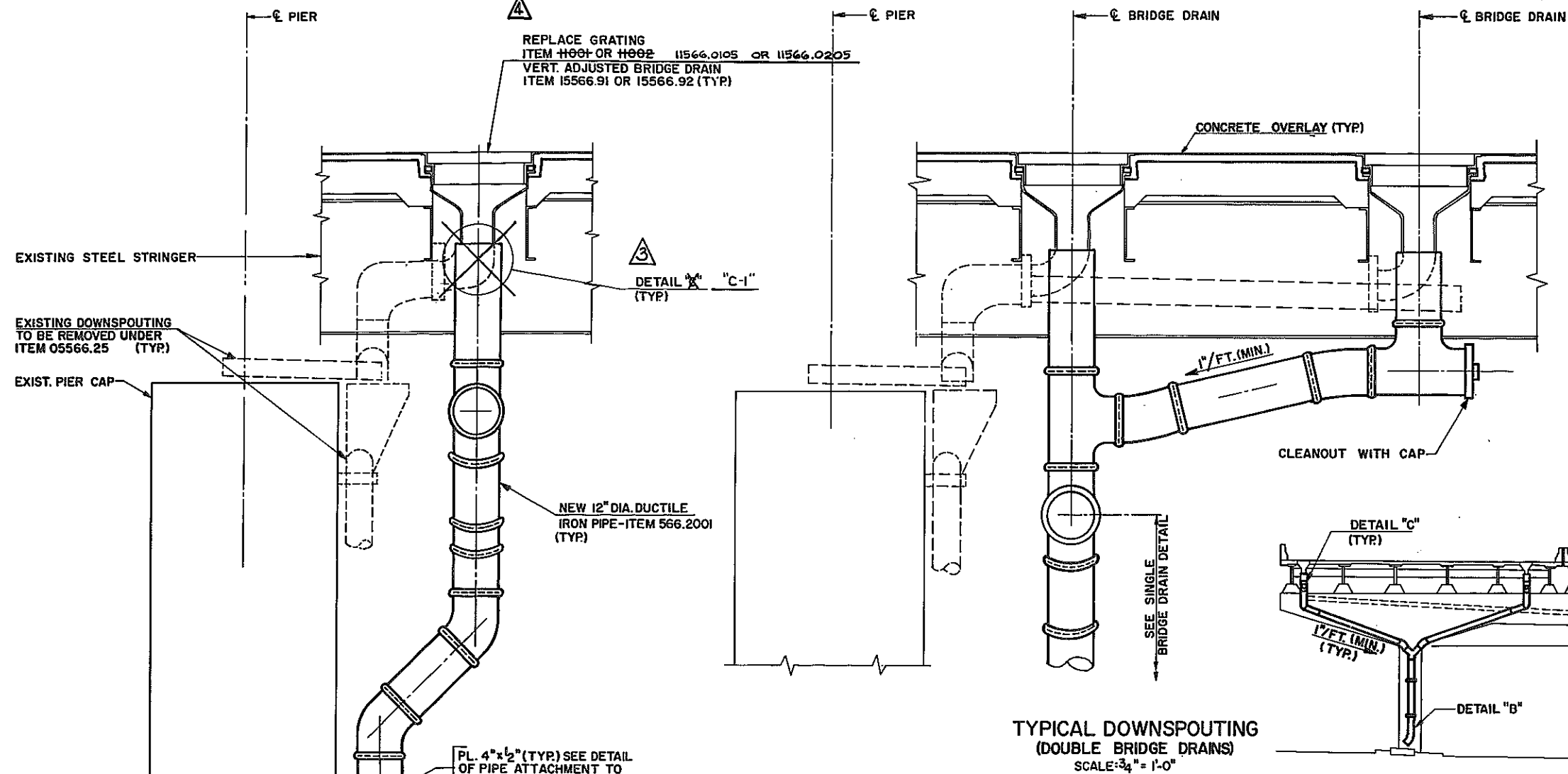
DOWNSPOUTING DETAILS

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

BRUCKNER EXPRESSWAY

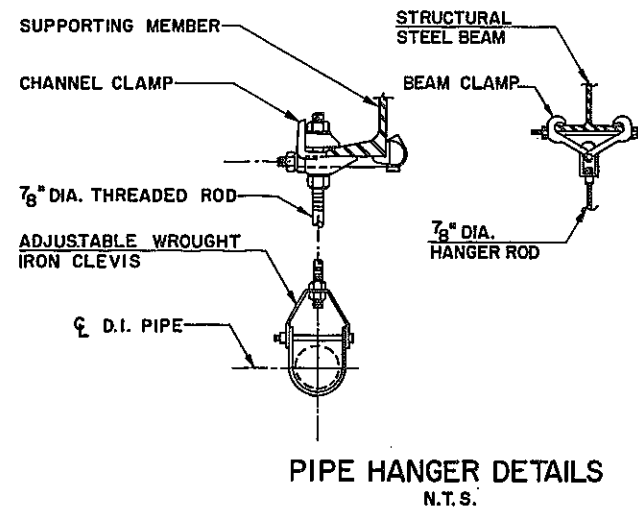
BLAUVELT ENGINEERING CO.
CONSULTING ENGINEERS, NEW YORK, N.Y.

DRAWING NO. DD-3	SCALE AS SHOWN	DATE 12/27/88	SHEET NO. 68R1
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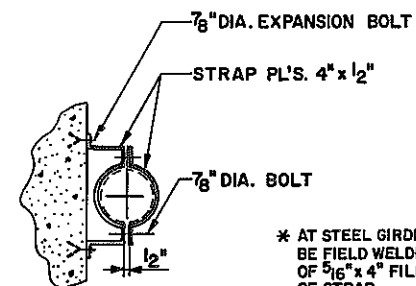
TYPICAL DOWNSPOUTING
(DOUBLE BRIDGE DRAINS)
SCALE: 3/32" = 1'-0"

PIER 2-52 (LOOKING NORTH)
SCALE: 3/32" = 1'-0"



PIPE HANGER DETAILS
N.T.S.

PIPE ATTACHMENT TO
EXISTING CONCRETE PIER *
N.T.S.

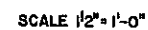
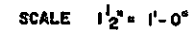


* AT STEEL GIRDERS THE STRAP PL. SHOULD BE FIELD WELDED TO GIRDER WEB BY MEANS OF 5/16" x 4" FILLET WELD, AT EACH END OF STRAP.


LEGEND

- ADDITION TO NOTE 10
- DETAIL "A" REPLACED BY
- DETAIL "B" REPLACED BY
- DETAIL "C" REPLACED BY
- DETAIL "C-1"
- NEW ITEMS

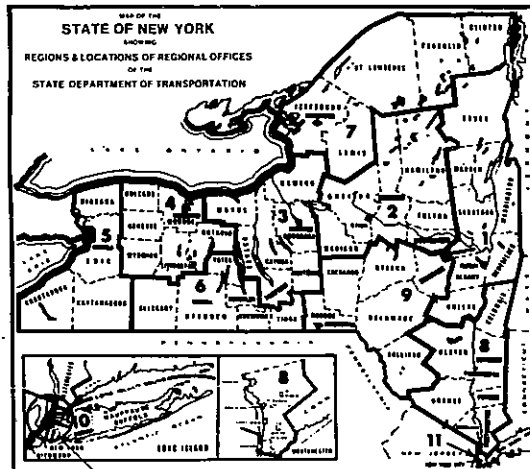
In Charge of
Made By
Traced By
Checked By



1. FOR EXIST BRIDGE DRAIN LOCATIONS
SEE DWG D-1, THRU D-3, GP-1, GP-5.
2. ALL BOLT LOCATIONS NECESSARY FOR
THE ADJUSTMENT OF BRIDGE DRAINS
SHALL BE VERIFIED IN THE FIELD.
3. COST OF NEW STRUCTURAL TUBING AND
NEW BOLTS IS INCLUDED IN PRICE BID
FOR THE FOLLOWING:
TYPE A DRAINS-ITEM 115GG.91, VERTICAL
ADJUSTMENT OF BRIDGE DRAINAGE
DEVICES ; TYPE B DRAINS-ITEM 115GG.92,
VERTICAL ADJUSTMENT OF BRIDGE
DRAINAGE DEVICES.
4. DETAIL SHOWN FOR 2" HIGH DENSITY
CONCRETE OVERLAY. IF CONTRACTOR
ELECTS TO USE 1/2" LATEX MODIFIED
CONCRETE OVERLAY, HE SHALL PROVIDE
A MODIFIED DETAIL FOR THE APPROVAL
OF THE ENGINEER.
5. REPLACEMENT OF EXISTING GRATINGS
SHALL BE DONE PRIOR TO SHIFTING THE
TRAFFIC (STAGES I AND II)

AS-BUILT REVISIONS			
 NEW ITEMS			
<i>John J. Lenczen</i> 043929 SIGNATURE		7/8/93 DATE	
BRIDGE DRAIN DETAILS			
STATE OF NEW YORK			
DEPARTMENT OF TRANSPORTATION			
BRUCKNER EXPRESSWAY			
BLAUVELT ENGINEERING CO. CONSULTING ENGINEERS, NEW YORK, N.Y.			
DRAWING NO STD-2	SCALE AS NOTED	DATE 12/27/88	SHEET NO. 69 R1

Appendix G – As-Built Records for Contract D254615



SITE OF WORK

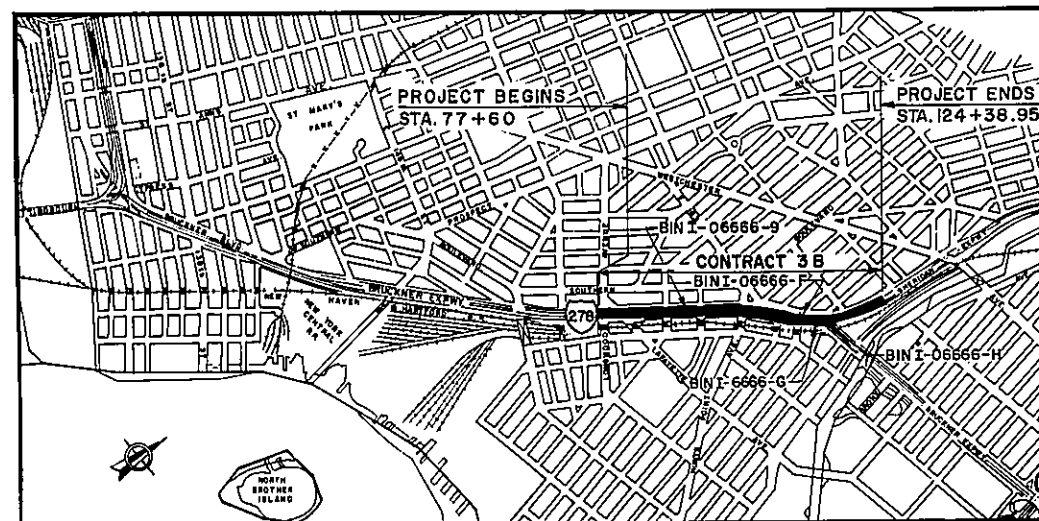
CONTRACT LOCATION

THIS CONTRACT CONSISTS OF FOUR BRIDGE STRUCTURES LOCATED IN THE COUNTY OF THE BRONX, CITY OF NEW YORK. ONE STRUCTURE CARRIES BRUCKNER EXPRESSWAY, I-278, OVER VARIOUS FEATURES (BIN I-06666-9). A SECOND STRUCTURE CARRIES THE SOUTHBOUND THROUGH RAMP (RAMP 'M' BIN I-06666-F) OF THE BRUCKNER EXPRESSWAY OVER HUNTS POINT AVENUE. A THIRD STRUCTURE CARRIES THE NORTHBOUND THROUGH RAMP (RAMP 'P' BIN I-06666-G) OF THE BRUCKNER EXPRESSWAY. THE FOURTH STRUCTURE CARRIES A NORTHBOUND ON RAMP (RAMP 'N' BIN I-06666-H) OF THE BRUCKNER EXPRESSWAY OVER FAILE STREET.

212 SHEETS

CONTRACT D254615

F.A. PROJECT 177-2781-303



LOCATION PLAN

THE CONTRACT LIMITS ARE TO BE THE NORTHBOUND ENTRANCES FROM THE TRIBORO BRIDGE BRONX APPROACH AND MAJOR DEEGAN EXPRESSWAY IN THE VICINITY OF ST. ANN'S AVE. AND THE SOUTHBOUND APPROACHES FROM THE SHERIDAN EXPRESSWAY IN THE VICINITY OF JENNINGS STREET AND THE SOUTHBOUND BRUCKNER EXPRESSWAY ENTRANCE AT UNDERHILL AVENUE.

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION
OFFICE OF ENGINEERING

REHABILITATION OF ROUTE I-278 VIADUCT EAST OF TRIBORO BRIDGE

RECORD PLANS

IN NEW YORK CITY

BRONX COUNTY

STANDARD SHEETS

604-6, 604-7, 604-8, 606-3R4, 606-8R1, 606-8R1,
606-10R1, 606-2C, 606-21, 606-25, 607-11, 619-3R3,
619-4R2, 644-3, 644-4, 644-5, 644-6, 644-7,
645-12, 645-13R1, 645-14R2, 655-8R5.

REGIONAL DESIGN STD: NYC REGION II DWG. D-3.
NYC REGION II DWG. D-4.

"CHANGES MADE TO THESE PLANS AND RELATED
CONTRACT DOCUMENTS SINCE COMPLETION BY THE
CONSULTING ENGINEER MAY BE DETERMINED BY
COMPARISON WITH SUCH PRELIMINARY PLANS AND
RELATED DOCUMENTS FILED AT THE REGIONAL
OFFICE OR THOSE FILED AT THE OFFICE OF THE
CONSULTING ENGINEER."

NEW YORK CITY MAINTENANCE NOTE

ALL WORK DONE UNDER THIS CONTRACT, WHEN COMPLETED, WILL BE MAINTAINED BY THE CITY OF NEW YORK IN ACCORDANCE WITH THE HIGHWAY LAW BY ARTICLE 12, SECTION 340-B IF INTERSTATE, AND BY ARTICLE 12-B, SECTION 349-C IF ARTERIAL. ALL EXISTING SANITARY AND OTHER SEWERS NOT DEEMED TO BE PART OF THE PROJECT BY THE COMMISSIONER, WATERMAINS, HYDRANTS AND OTHER MUNICIPALLY OR PRIVATELY OWNED FACILITIES WITHIN THE LIMITS OF THE R.O.W. WHICH REMAIN IN SERVICE UNCHANGED AND ALL SUCH FACILITIES RELOCATED OR PROTECTED AS PART OF THE WORK PERFORMED UNDER THE PROJECT WHETHER CROSSING, LOCATED WITHIN OR ADJACENT TO THE R.O.W. SHALL BE MAINTAINED AS THE CASE MAY BE BY THE MUNICIPALITY OR BY THE AGENCY OR UNIT HAVING CONTROL OR JURISDICTION THEREOF AT NO COST OR EXPENSE TO THE STATE. APPROVED PURSUANT TO THE PROVISIONS OF ARTICLE 12-B, SECTION 349-C, OF THE HIGHWAY LAW, BY THE MAYOR OF THE CITY OF NEW YORK.

FUND SOURCE	CORRESPONDING P.I.N.
177-2781-303	X730.28.311
100% STATE	X730.28.302

CONTRACTOR'S NAME KISKA CONSTRUCTION

AWARD DATE SEPTEMBER 9, 1993

COMPLETION DATE DECEMBER 31, 1996

FINAL ACCEPTANCE DATE DECEMBER 30, 1996

REGIONAL DIRECTOR SUBI CHAKRABORTI

ENGINEER IN CHARGE ALBERT WONG

FINAL COST TOTAL \$ 38,295,208.58

FISCAL SHARE	COST(S)
FS 1	\$ 36,667,698.78
FS 2	\$ 1,625,296.80

RECOMMENDED BY *[Signature]* 1/14/93
T. ST. GERMAIN, P.E.
REGIONAL DESIGN ENGINEER
REGION II

RECOMMENDED BY *[Signature]* 1-19-93
E. J. PETROV, P.E.
DIRECTOR OF CONSTRUCTION
REGION II

[Signature] 1/14/93
F. LIN, P.E.
REGIONAL TRAFFIC ENGINEER
REGION II

RECOMMENDED BY *[Signature]* 1/19/93
J. M. MANZOLO, P.E.
DIRECTOR OF OPERATIONS
REGION II

RECOMMENDED BY *[Signature]*
R. J. SCHMALZ, P.E.
REGIONAL CONSTRUCTION ENGINEER
REGION II

RECOMMENDED BY *[Signature]* 1/13/93
I. DEITCH, P.E.
DIRECTOR OF STRUCTURES
REGION II

RECOMMENDED BY *[Signature]* 1/15/93
J. EDELSTEIN, P.E.
REGIONAL MAINTENANCE ENGINEER
REGION II

APPROVED BY *[Signature]* 1-19-93
M. MICHAEL FRANCISE, P.E.
REGIONAL DIRECTOR
REGION II

RECOMMENDED BY

DATE _____
CERTIFICATE NO. _____
APPROVED BY *[Signature]* 1/20/93
LUCAS J. P. D., P.E.
COMMISSIONER
COORDINATOR OF ARTERIAL HIGHWAYS
DEPARTMENT OF TRANSPORTATION
CITY OF NEW YORK

APPROVED BY *[Signature]* 1/20/93
GEORGE A. KRAUSE, P.E.
CHIEF ENGINEER
DEPARTMENT OF TRANSPORTATION
CITY OF NEW YORK

THE SERVICE LIFE OF THE CITY-OWNED UTILITIES TO BE REPLACED, AS SHOWN ON THE PLANS, HAS NOT BEEN EXTENDED.

APPROVED BY *[Signature]* 1/19/93
HARRY KAMMIS, P.E.
ASSISTANT COMMISSIONER
OFFICE OF CONSTRUCTION COORDINATION
DEPARTMENT OF TRANSPORTATION
CITY OF NEW YORK

PREPARED AND RECOMMENDED BY,
BLAUVELT ENGINEERS, P.C.
[Signature] 1/15/93
ROBERT L. AVISON
N.Y.S. P.E. L.I.C. NO. 064772
SENIOR VICE PRESIDENT

I-278 BRUCKNER EXPRESSWAY AND RAMPS			
MONOLITHIC DECK			
REHABILITATION AT SHERIDAN INTERCHANGE			
CONTRACT 3B		B.I.N. I-06666-9 &	
I-06666-F, G & H			
COUNTY OF THE BRONX			
FED. ROAD REG. NO.	STATE	SHEET NO.	TOTAL SHEETS
1	N.Y.	1 <i>R</i>	199
FEDERAL AID PROJECT NO.		177-2781-303	
CAPITAL PROJECT IDENTIFICATION NO.		X730.28.311, .302	

INDEX ON SHEET NO. 2

DATE _____
CHECKED BY _____
DRAFTED BY _____
ESTIMATED BY _____
DESIGNED BY _____
IN CHARGE OF _____

DATE
DK
CHECKED BY
DRAFTED BY
CHECKED BY
ESTIMATED BY
DK
CHECKED BY
MB
DESIGNED BY
RLA
IN CHARGE OF

SHEET NO.	DWG NO.	TITLE
1 FI		TITLE SHEET
2 R	LD-1	LIST OF DRAWINGS
3 R	EQ-1	ESTIMATE OF QUANTITIES
4 R	EQ-2	ESTIMATE OF QUANTITIES
5	GN-1	GENERAL NOTES I
6	GN-2	GENERAL NOTES II
7	MPT-1A	M&PT GENERAL NOTES I
8 3 F R	MPT-1B	M&PT GENERAL NOTES II
9	MPT-2	M&PT PLAN STAGE I
10	MPT-3	M&PT PLAN STAGE I
11	MPT-4	M&PT PLAN STAGE II
12	MPT-5	M&PT PLAN STAGE II
13	MPT-6	M&PT PLAN STAGE II
14	MPT-7	M&PT PLAN SUB-STAGE III-A
15	MPT-8	M&PT PLAN STAGE III
16	MPT-9	M&PT PLAN STAGE III
17	MPT-10	M&PT PLAN STAGE IV
18	MPT-11	M&PT PLAN SUB-STAGE IV-A
19	MPT-12	M&PT PLAN STAGE IV
20	MPT-13	M&PT SECTIONS STAGE I
21	MPT-14	M&PT SECTIONS STAGE II
22	MPT-15	M&PT SECTIONS STAGE III
23	MPT-16	M&PT SECTIONS STAGE IV
24	MPT-17	M&PT ALTERNATE ROUTES I
25	MPT-18	M&PT ALTERNATE ROUTES II
26	MPT-19	M&PT DETAIL I
27	MPT-20	M&PT DETAIL II
28	MPT-21	M&PT DETAIL III
29	MPT-22	M&PT SIGN TEXT DATA SHEET I
30	MPT-23	M&PT SIGN TEXT DATA SHEET II
31	MPT-24	M&PT SIGN TEXT DATA SHEET III
32	MPT-25	M&PT SIGN TEXT DATA SHEET IV
33	ML-1	GENERAL PLAN I
34	ML-2	GENERAL PLAN II
35	ML-3	GENERAL PLAN III
36	ML-4	GENERAL PLAN IV
37	M-1	GENERAL PLAN RAMP M
38	P-1	GENERAL PLAN RAMPS P AND N
39	G-1	GEOMETRY PLAN I
40	G-2	GEOMETRY PLAN II
41	G-3	GEOMETRY PLAN III
42	G-4	GEOMETRY PLAN IV
43	VP-1	MAINLINE PROFILE I
44	VP-2	MAINLINE PROFILE II
45	VP-3	MAINLINE PROFILE III
46	VP-4	MAINLINE CROSS SECTION TRANSITIONS
47	VP-5	PROFILE - RAMP M
48	VP-6	PROFILE - RAMP P
49	VP-7	PROFILE - RAMP N
50 R	TS-1	TYPICAL SECTIONS I
51 R	TS-2	TYPICAL SECTIONS II
52	TS-3	TYPICAL SECTIONS III
53	TS-4	APPROACH SECTIONS
54	TS-5	ROADWAY TYP. SECTIONS RAMP P
55 R	TS-6	ROADWAY TYP. SECTIONS RAMP M
56	RP-1	ROADWAY PLAN I
57 R	RP-2	ROADWAY PLAN II
58 R	RP-3	ROADWAY PLAN III
59	CG-1	CONTOUR GRADING PLAN
60	CG-2	CONTOUR GRADING PLAN
61	PD-1	PAVEMENT REPAIR DETAILS
62	PD-2	PAVEMENT REPAIR DETAILS
63	PD-3	PAVEMENT REPAIR DETAILS
64	PD-4	PAVEMENT REPAIR DETAILS
65	RD-1	MISCELLANEOUS CONCRETE BARRIER DETAILS
66 R	FP-1	KEY FRAMING PLAN
67 R	AB-1	NORTH ABUTMENT MAINLINE
68	AB-2	NORTH ABUTMENT MAINLINE-DETAILS
69 R	AB-3	ABUTMENT-RAMP P
70 R	AB-4	ABUTMENT-RAMP M
71 R	AB-5	ABUTMENT-RAMP N
72	AB-6	WINGWALL DETAILS
73 R	STD-1	APPROACH SLAB RECONSTR. - MAINLINE
74	STD-2	APPROACH SLAB RECONSTR. - RAMP "P"
75 R	STD-3	APPROACH SLAB RECONSTR. - RAMP "M"



SHEET NO.	DWG NO.	TITLE
76	STD-4	APPROACH SLAB RECONSTR. - RAMP "N"
77	STD-5	SLAB SURVEY CONCRETE REPAIR DETAIL
78	STD-6	CONCRETE BLISTER DETAILS
79	STD-7	RAMP M ENTRANCE GORE
80 R	STD-8	RAMP P EXIT GORE
81	STD-9	RAMP N ENTRANCE GORE
82	STD-10	TEMPORARY PLATE AT SIDEWALK JOINTS
83	STD-11	DETAILS FOR STRUCTURAL SLAB OVERLAY REPAIR PREPARATION
84	STD-12	RESET BEARINGS
85	STD-13	PAINTING AND REPAIR OF BOX GIRDERS
86	MB-1	MEDIAN BARRIER TRANSITION - STA 104+00
87	MB-2	MEDIAN BARRIER TRANSITION - STA 112+00
88 R	MB-3	CONCRETE BARRIER TRANSITION DETAILS
89 R	MB-4	PARAPET - GUIDE RAIL TRANSITION
90	MB-5	PARAPET MODIFICATION
91	MB-6	RAMP M BARRIER TRANSITION
92	MB-7	RAMP P BARRIER TRANSITION
93	MB-8	RAMP M BOX BEAM TRANSITION
94 R	MB-9	PARAPET & MEDIAN BARRIER SECTIONS
95	AD-1	ARMORED DECK JOINTS-TABLE & INSTALLATION
96	AD-2	ARMORED DECK JOINTS-DETAILS
97	AD-3	ARMORED DECK JOINTS-PLAN I
98	AD-4	ARMORED DECK JOINTS-PLAN II
99	AD-5	ARMORED DECK JOINTS-PLAN III
100	AD-6	ARMORED DECK JOINTS-SECTIONS-TYPE I
101	AD-7	ARMORED DECK JOINTS-SECTIONS-TYPE II & III
102	AD-8	ARMORED JOINT SYSTEM WITH STRIP SEAL
103 R	DR-1	DECK REPAIRS I
104 R	DR-2	DECK REPAIRS II
105 R	DR-3	DECK REPAIRS III
106 R	DR-4	DECK REPAIRS IV
107 R	DR-5	DECK REPAIRS V
108 R	PR-1	PIER REPAIRS I
109 R	PR-2	PIER REPAIRS II
110 R	PR-3	PIER REPAIRS III
111 R	PR-4	PIER REPAIRS IV
112 R	PR-5	PIER REPAIRS V
113 R	PR-6	PIER REPAIRS VI
114 R	PR-7	PIER REPAIRS VII
115	CR-1	CONCRETE REPAIR DETAILS
116	SR-1	MEDIAN SLAB REPLACEMENT I
117	SR-2	MEDIAN SLAB REPLACEMENT II
118	SR-3	MEDIAN SLAB REPLACEMENT III
119	SR-4	MEDIAN SLAB REPLACEMENT IV
120	SR-5	MEDIAN SLAB REPLACEMENT V
121	SR-6	SLAB REPLACEMENT RAMP M-PLAN
122	SR-7	SLAB REPLACEMENT RAMP M-DETAILS
123 R	DP-1	DRAINAGE PLAN I
124 F R	DP-2	DRAINAGE PLAN II
125 R	DP-3	DRAINAGE PLAN III
126 R	DP-4	DRAINAGE PLAN IV
127 F R	DP-5	DOWNSPOUTING LAYOUT I
128 F R	DP-6	DOWNSPOUTING LAYOUT II
129 F R	DP-7	DOWNSPOUTING LAYOUT III
130 R	DP-8	DOWNSPOUTING LAYOUT IV
131 R	DP-9	DOWNSPOUTING DETAILS I
132 F R	DP-10	DOWNSPOUTING DETAILS II
133 F R	DP-11	DOWNSPOUTING DETAILS III
134	DP-12	BRIDGE DRAIN DETAILS
135	SP-1	STRIPING & SIGN LOCATION PLAN I
136	SP-2	STRIPING & SIGN LOCATION PLAN II
137 R	SP-3	STRIPING & SIGN LOCATION PLAN III
138 R	SP-4	PERMANENT SIGN TABULATION I
139 R	SP-4A	PERMANENT SIGN TABULATION II
140 R	SP-5	PERMANENT SIGN TABULATION III
141	SP-6	STRIPING DETAILS
142	SD 644-2	OVERHEAD SIGN STRUCTURES
143	SD-1	SUPPORT DETAIL FOR SIGN STRUCTURE
144	SD644-IRI	OVERHEAD SIGN STRUCTURES - CANTILEVER
145	SD-2	SUPPORT DETAILS FOR CANTILEVER SIGN STRUCTURES
146	SD-3	CANTILEVER SIGN STRUCTURE SUPPORT DETAIL
147	BL-1	BAR BENDING DIAGRAM
148	BL-2	BAR LIST II
149	BL-3	BAR LIST III
150	BL-4	BAR LIST IV



SHEET NO.	DWG NO.	TITLE
151	BL-5	BAR LIST V
152	BL-6	BAR LIST VI
153	BL-7	BAR LIST VII
154	BL-8	BAR LIST VIII
155	BL-9	BAR LIST IX
156	BL-10	BAR LIST X
157	BL-11	BAR LIST XI
158	BL-12	BAR LIST XII
159	BL-13	BAR LIST XIII
160	BL-14	BAR LIST XIV
161	BL-15	BAR LIST XV
162	BL-16	BAR LIST XVI
163	BL-17	BAR LIST XVII
164	E-1	WIRING PLAN, DIAGRAM AND LIGHTING NOTES
165	E-2	ELECTRICAL DISTRIBUTION PLAN I
166 R	E-3	ELECTRICAL DISTRIBUTION PLAN II
167 R	E-4	ELECTRICAL DISTRIBUTION PLAN III
168 R	E-5	ELECTRICAL DISTRIBUTION PLAN IV
169	E-6	LIGHTING DETAILS I
170 R	E-7	LIGHTING DETAILS II
171 R	E-8	LIGHTING DETAILS III
172	E-9	LAMPPOST DETAILS
173	E-10	ELECTRICAL DETAILS I FOR SIGN STRUCTURE
174	E-11	ELECTRICAL DETAILS II FOR SIGN STRUCTURE
175 R	E-12	UNDERDECK LIGHTING - DISTRIBUTION PLAN I
176 R	E-13	UNDERDECK LIGHTING - DISTRIBUTION PLAN II & DETAIL
177	MPT-26	MAINTENANCE AND PROTECTION OF TRAFFIC - BRUCKNER BOULEVARD - I
178	MPT-27	MAINTENANCE AND PROTECTION OF TRAFFIC - BRUCKNER BOULEVARD - II
179	MPT-28	MAINTENANCE AND PROTECTION OF TRAFFIC - SIGN TEXT DATA SHEET
180	BR-1	BEARING RETROFIT TABLE
181 R	BR-2	RESTRAINER DETAILS
182 R	BR-3	STEEL BOX BEAM ELEVATIONS G3-3, G3-4 & G3-5
183 R	BR-4	STEEL BOX BEAM ELEVATIONS G3-6, G3-7 & G3-8
184 R	BR-5	STEEL BOX BEAM ELEVATIONS G3-9 & G3-10
185 R	BR-6	STEEL BOX BEAM ELEVATIONS G3-25 & G3-26
186	BR-7	STEEL BOX BEAM ELEVATIONS G3-42, G3-43 & G3-44
187	BR-8	ELASTOMERIC BEARINGS - STEEL BOX BEAMS I
188	BR-9	ELASTOMERIC BEARINGS - STEEL BOX BEAMS II
189	BR-10	ELASTOMERIC BEARINGS - STEEL BOX BEAMS III
190	BR-11	ELASTOMERIC BEARINGS - STEEL BOX BEAMS IV
191	BR-12	STEEL BOX BEAM JACKING POINTS REINFORCEMENT - I
192	BR-13	STEEL BOX BEAM JACKING POINTS REINFORCEMENT - II
193	BR-14	STEEL BOX BEAMS BEARING TABLE
194	BR-15	STEEL BOX BEAMS MASONRY PLATES
195 R	BR-16	ELASTOMERIC BEARINGS ON STEEL PIERS
196 R	BR-17	BEARINGS ON STEEL PIERS BEARING TABLE
197	BR-18	ELASTOMERIC BEARINGS ON CONCRETE PIERS
198	BR-19	BEARINGS ON CONCRETE PIERS BEARING TABLE I
199	BR-20	BEARINGS ON CONCRETE PIERS BEARING TABLE II
199A1-199A13	--	REFERENCE DRAWINGS (CONTRACT FIBE 60-1)

NEW YORK CITY BUREAU OF ELECTRICAL CONTROL DRAWINGS	
D-2280	H-3009
D-2861	H-5009
D-3325-A	H-5024
D-3949	H-5220
D-5034	H-5222-A
D-2247	H-5244
D-5007	H-3315
D-3229	J-3179-B
D-3984	J-5048
-	J-5148
A-5018-A	J-5229


AS-BUILT REVISIONS	
Revised Sheet Numbers	
SIGNATURE	DATE
LIST OF DRAWINGS- I	
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION	
DRAWING NO. LD-1	SCALE NONE
DATE 12-29-92	REGION 11

DATE _____
CHECKED BY _____
DRAFTED BY _____
ESTIMATED BY _____
CHECKED BY _____
DESIGNED BY _____
IN CHARGE OF _____

ESTIMATE OF QUANTITIES				
ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY	
202.20	REMOVING OLD BITUMINOUS CONC OVERLAY	SY	165	2239.04
203.02	UNCLASSIFIED EXCAVATION AND DISPOSAL	CY	1,393	1748.34
203.07	SELECT GRANULAR FILL	CY	554	18.86
203.19	CLEANING DRAINAGE STRUCTURES AND MANHOLES	EA	13	4.00
203.21	SELECT STRUCTURE FILL	CY	55	48.84
206.01	STRUCTURE EXCAVATION	CY	375	224.97
206.02	TRENCH AND CULVERT EXCAVATION	CY	425	82.41
17304.1011	SUBBASE COURSE, TYPE 1011	CY	623	703.15
10403.0903	SAW CUTTING ASPHALT CONCRETE	LF	254	14.10
403.13	ASPHALT CONCRETE-TYPE 3 BINDER COURSE	T	125	
18403.1316	HEAVY DUTY ASPHALT CONCRETE, TYPE 3HD	T	327	316.19
403.1701	ASPH CONC - TYPE 6F TOP COURSE (HIGH FRICT) MARSHALL DESIGN	T	105	437.20
18403.1716	HEAVY DUTY ASPHALT CONCRETE, TYPE 6F HD	T	484	1174.64
18403.2502	SAW & SEAL JTS IN BIT CONC OVERLAY	LF	700	0.00
18403.88	REPAIR DEFECTIVE AC OVERLAY & PCC & UNDERLYING PCC JOINTS	SY	33	941.26
407.0101	TACK COAT	GAL	244	158.34
490.30	MISCELLANEOUS COLD MILLING OF BITUMINOUS CONCRETE	SY	317	0.00
490.40	MISCELLANEOUS COLD MILLING OF PORTLAND CEMENT CONCRETE	SY	300	43.75
502.04	CEMENT CONC PAVE REINFOR CL-C	CY	35	135.12
502.06	CEM CONC PAVE UNREINFOR CL-C	CY	145	752.62
502.10	METAL REINF FOR CONC PAVEMENT (10 FT. WIDE OR GREATER)	SY	50	137.18
502.11	METAL REINF FOR CONC PVT. (LESS THAN 10 FT. WIDE)	SY	135	137.71
502.20	TRANS. JOINT SUPPORTS (ALL TYPES)	LF	1,500	1021.00
502.32	LONGITUDINAL JOINT TIES, (GROUT TYPE)	EA	845	0.00
10502.3410	LOAD TRANSFER DEVICE FOR CONCRETE PAVEMENT REPAIRS	EA	300	0.00
502.43	CONSTRUCTING AND SEALING SPECIAL JOINTS	LF	475	21543.88
15502.4511	CEM CONC PAVT PRESS RELIEF JTS	LF	172	0.00
10502.5506	SAW CUTTING PORTLAND CEMENT CONCRETE & COMPOSITE PAVEMENTS	LF	49,800	0.00
18502.6028	CEMENT CONCRETE FOR PAVEMENT REPAIRS	CY	32	0.00
18502.7601	SEALING CRACKS IN PCC PAVEMENT SILICONE SEALANT	LF	200	266.00
552.02	PERM STEEL SHEET PILING	SF	3,600	817.44
552.05	SAPE OPERATION SHEET PILING (MIN. BID 80 CENTS)	SF	6,600	48500.00
555.0105	CONCRETE FOR STRUCTURES, CLASS A	CY	1,044	10900.00
555.0403	CONC FOR STRS - CLASS E (STR SLAB-SEPARATE WEAR SURFACE)	SF	45,500	0.00
555.0404	CONC FOR STRS - CLASS E (STR APR SLAB - INT WEAR SURFACE)	SF	10,900	424900.00
16555.5505	PERM CONC TRAFF BARRIER FOR STRUCT(SAFETY SHAPE-HALF SECT)	LF	7,850	1305.51
16555.6603	TRANSV SAWCUT GROOVING OF STRUCT SLAB SURFACE	SF	424,000	406514.69
556.0201	UNCOATED BAR REINFORCEMENT FOR CONCRETE STRUCTURES	LB	8,000	85396.92
556.0202	EPOXY-COATED BAR REINFORCE FOR STRUCTURES	LB	700,000	24483.46
556.03	STUD SHEAR CONNECTORS / BRIDGE	EA	19,500	35002.52
559.01	EPOXY PROTECTIVE COATING	SF	73,500	33108.77
564.510001	STRUCTURAL STEEL	LB	25,000	51467.28
564.510002	STRUCTURAL STEEL	LB	9,200	0.00
564.510003	STRUCTURAL STEEL	LB	147,000	0.00
564.510004	STRUCTURAL STEEL	LB	57,320	84364.66
564.510005	STRUCTURAL STEEL	LB	16,910	2400.48
564.510006	STRUCTURAL STEEL	LB	62,900	1338.38
564.510007	STRUCTURAL STEEL	LB	2,520	
564.510008	STRUCTURAL STEEL	LB	300	

ESTIMATE OF QUANTITIES				
ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY	
565.2001	TYPE E.B. BEARING (0 TO 100 KIP)	EA	188	188.00
565.2002	TYPE E.B. BEARING (101 TO 150 KIP)	EA	156	156.00
565.2006	TYPE E.B. BEARING (301 TO 350 KIP)	EA	2	2.00
565.2011	TYPE E.B. BEARING (551 TO 600 KIP)	EA	2	2.00
565.2014	TYPE E.B. BEARING (801 TO 900 KIP)	EA	2	2.00
565.2015	TYPE E.B. BEARING (901 TO 1000 KIP)	EA	5	2.00
565.2016	TYPE E.B. BEARING (1001 TO 1100 KIP)	EA	2	14.00
565.2018	TYPE E.B. BEARING (1201 KIP AND OVER)	EA	14	314.00
15565.4302	BRIDGE BEARING RESTORATION	EA	315	344.00
11565.430201	BEARING REMOVAL (STRINGER BEARINGS)	EA	344	27.00
11565.430202	BEARING REMOVAL (STEEL BEAM PIER CAP BEARINGS)	EA	27	55.00
11566.010501	REPLACEMENT OF SCUPPER FRAME AND GRATINGS - TYPE A	EA	60	61.00
11566.020501	REPLACEMENT OF SCUPPER FRAME AND GRATINGS - TYPE B	EA	56	57.00
11566.1303	CLEANING DRAINAGE SYSTEMS	EA	116	1335.33
566.2001	DOWNSPOUT SYSTEM (DUCTILE IRON)	LF	2,750	2999.56
05566.25	REM & DISPOSE OF DOWNSPOUT SYS	LF	2,400	370.24
16567.26	ARM JOINT SYST WITH PREFORMED ELASTIC STRIP SEAL	LF	61	0.00
567.33	ARMORED JOINT SYSTEM WITH COMPRESSION SEAL - TYPE A3	LF	1,810	0.00
567.34	ARMORED JOINT SYSTEM WITH COMPRESSION SEAL - TYPE A4	LF	290	0.00
567.35	ARMORED JOINT SYSTEM WITH COMPRESSION SEAL - TYPE A5	LF	113	0.00
567.36	ARMORED JOINT SYSTEM WITH COMPRESSION SEAL - TYPE A6	LF	190	0.00
567.37	ARMORED JOINT SYSTEM WITH COMPRESSION SEAL, TYPE A7	LF	560	0.00
567.38	ARMORED JOINT SYSTEM WITH COMPRESSION SEAL, TYPE A8	LF	1,000	0.00
18567.46	ELASTOMERIC CONCRETE FOR BRIDGE JOINT SYSTEMS	LF	61	113.01
15567.60	REMOVAL EXIST STEEL JT SYSTEMS	LF	1,800	1983.51
16567.64	REPLAC COMP SEAL FOR EXIST BRIDGE JOINTS	LF	282	295.98
11568.1299	STEEL BRIDGE RAILING (ONE RAIL)	LF	14,100	13084.41
18570.1291	TREATMENT AND DISPOSAL OF PAINT REMOVAL WASTE	CY	900	53.91
18570.1502	CLASS A CONTAINMENT SYSTEM FOR PAINT REMOVAL	LS	NEC	100.00
18570.139	SHOP APPLIED STRUCT STEEL PAINT SYSTEM	LS	NEC	100.00
18570.8602	MAINTENANCE CLEANING & EPOXY PRIMING (SPRAY PROHIBITED)	LS	NEC	100.00
18570.8604	MAINT PAINTING EPOXY INTERMED COAT (SPRAY PROHIBITED)	LS	NEC	100.00
18570.8606	MAINT PAINTING URETHANE FINISH COAT (SPRAY PROHIBITED)	LS	NEC	100.00
579.01	STRUCT SLAB SCARIFICATION	SF	407,000	358914.84
579.02	REINF BAR EXPOSURE	SF	286,000	2824.41
580.01	REMOVAL OF STRUCTURAL CONCRETE	CY	2,864	25874.95
580.02	REMOVAL OF ST SUPPORT STRUCT SLAB (WITH SHEAR CONNECTORS)	SF	45,500	87.58
582.05	REM OF STRUCT CONC-REPL W/ CLASS A CONC	CY	70	
582.06	REM OF STRUCT CONC-REPL W/ CLASS D CONC	SF	7,300	6558.67
582.07	REM OF STRUCT CONC -REPL W/ VERT & OVERHD PATCH MATERIAL	SF	1,000	1259.09

ESTIMATE OF QUANTITIES				
ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY	
584.0102	HIGH DENSITY CONCRETE OVERLAY	SF	722,000	
584.1102	LATEX MODIFIED CONCRETE OVERLAY	SF	722,000	
584.1201	MICRO-SILICA CONCRETE OVERLAY	SF	722,000	819831.10
585.01	STRUCTURAL LIFTING OPERATIONS TYPE A	EA	277	277.00
585.02	STRUCTURAL LIFTING OPERATIONS TYPE B	EA	382	381.00
585.03	STRUCTURAL LIFTING OPERATIONS TYPE C	EA	2	2.00
585.04	STRUCT. LIFT. OPER. TYPE D	EA	2	2.00
585.05	STRUCT. LIFT. OPER. TYPE E	EA	9	9.00
585.06	STRUCT. LIFT. OPER. TYPE F	EA	9	9.00
585.07	STRUCT. LIFT. OPER. TYPE G	EA	3	3.00
585.08	STRUCT LIFT OPER TYPE H	EA	2	2.00
586.01	DRILL & GROUT BOLTS OR REINF BARS	LF	15,000	12147.00
586.10	FIELD DRILL HOLES IN EXISTING STRUCTURAL STEEL	EA	450	918.00
587.01	BR RAILING REMOVAL & DISPOSAL	LF	14,100	11828.00
589.0101	REMOVAL OF EXISTING STEEL	LB	870,000	565541.60
603.6203	REINFORCED CONCRETE PIPE, CLASS V, 18 INCH DIAMETER	LF	80	49.00
11604.020301	CATCH BASIN TYPE C-1	LF	20	6.50
11604.070103	ADJUSTMENT OF EXISTING MANHOLE TO GRADE	EA	10	9.00
11604.0725	REBUILDING TOP OF EXIST DRAIN STRUCTURE	EA	7	7.00
604.302192	RECT DRAINAGE STR TYPE U FOR PARALLEL BAR #12 PCB FRAME	LF	140	0.00
605.0901	UNDERDRAIN FILTER TYPE 1	CY	39	26.77
11606.3016	CONC MED BARRIER	LF	18	31.33
11606.3116	CONC MED BARRIER END SECT	LF	50	49.46
11606.3156	1/2 SECT CONC BARRIER	LF	1,900	1923.19
11606.3157	1/2 SECT CONC BARRIER END SECT	LF	80	66.83
606.32	HVY POST BLOCKED-OUT CORR BEAM GUIDE RAILING	LF	900	1227.83
15606.3202	TRANSITION CONCRETE BARRIER TO BOX BEAM GUIDE RAIL	LF	64	67.38
10606.3299	BACK UP POSTS FOR HALF SECTION CONCRETE BARRIER	EA	288	287.00
606.33	HVY POST BLOCKED-OUT CORR BEAM MEDIAN BARRIER	LF	75	125.25
606.36	HVY POST BLOCK-OUT CORR BEAM GD RAIL CORR TO WALL (TRL EN)	EA	2	2.00
606.50	RESET CORR BEAM GUIDE RAILING	LF	175	0.00
606.62	REMOVING & STORING CORRUGATED BEAM GUIDE RAILING	LF	385	316.00
606.72	REMOVING & DISPOSING CORRUGATE BEAM GUIDE RAILING	LF	1,144	1163.00
606.73	REMOVING & DISPOSING CORRUGATE BEAM MEDIAN BARRIER	LF	200	1391.00
606.8704	COR BM GUIDE RAIL TRANS ASSEM - CONC PARAPETS OR SAF SHAPES	LF	50	41.50
10606.9987	HVY PST BLOCK-OUT CORR BEAM GD RAIL CORR TO WALL (APP END)	EA	1	1.00
11607.01	INST 4' GALV ST CLF ON CONC BARR W/TOP & BOT TENS WIRES	LF	820	841.35
11607.02	INST GALV ST POST FOR 4' HIGH FENCE ON CONC BARR	EA	105	107.10
11607.03	INST 6' HIGH GALV ST CLF W/TOP & BOT TENSION WIRES	LF	220	213.00
11607.04	INST GALV ST POST FOR 6 FT HIGH FENCE	EA	30	29.00
11607.21	REM & DISP CHAIN LINK FENCE	LF	880	330.00
11608.0102	CONC SIDEWALK W/ FOUNDATION (NYC)	SF	450	0.00
10608.3102	REM & RESET STONE OR CONC PAVT BLOCK	SF	8,333	0.00
609.0406	CONVENTIONALLY FORMED OR HACH FORMED CONC CURB TYPE AC	LF	261	143.39
* OPTIONAL ITEMS				

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		381	199
I-278 BRUCKNER EXPRESSWAY AND RAMPS				
REHABILITATION AT SHERIDAN INTERCHANGE				
PIN X730.28		BIN I-06666-F		
		BIN I-06666-G		
		BIN I-06666-H		
AS - BUILT REVISIONS				
1. Final Quantities				
 8-25-97				
ESTIMATE OF QUANTITIES I				
STATE OF NEW YORK				
DEPARTMENT OF TRANSPORTATION				
DRAWING NO.	SCALE	DATE	REGION	
EQ-1	NONE	5-6-1993	11	

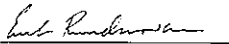
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		411	199
I-278 BRUCKNER EXPRESSWAY AND RAMPS REHABILITATION AT SHERIDAN INTERCHANGE				
PIN X730.28			BIN I-06666-9	
			BIN I-06666-F	
			BIN I-06666-G	
			BIN I-06666-H	

DATE _____
CHECKED BY _____
DRAFTED BY _____
CHECKED BY _____
ESTIMATED BY _____
CHECKED BY _____
DESIGNED BY _____
IN CHARGE OF _____

ESTIMATE OF QUANTITIES				
ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY	2
619.01	BASIC MAINTENANCE & PROTECTION OF TRAFFIC	LS	NEC	100.00
619.02	CONSTRUCTION SIGNS	LS	NEC	100.00
619.0303	FLASHING ARROW BOARDS	LS	NEC	100.00
619.0413	TYPE III CONSTRUCTION BARR	LF	50	0.00
619.0502	LIGHTING FOR CONSTRUCTION BARRICADES	LF	50	0.00
10619.0599	LIGHTING FOR TEMP CONC BARRIER	LF	43,265	39340.00
619.1502	SHORT-TERM PAVEMENT MARKINGS	LF	250	0.00
619.17	TEMPORARY CONC BARRIER	LF	43,265	39340.00
15619.1905	WHITE REM REFLECT PVT STRIPES	LF	68,814	22457.22
15619.1906	YELLOW REM REFLECT PVT STRIPES	LF	52,696	16941.58
11619.229301	TRAFFIC ENFORCEMENT AGENTS	LS	NEC	100.00
15619.4003	TEMP GUIDE RAIL TERM IMP ATTN (3 BAY) (40 MPH OP SPEED)	EA	6	0.00
15619.6804	TEMP INERTIAL BARRIER MODULE (14000)	EA	18	0.00
11619.991601	TOW TRUCK SERVICE	HR	1,000	1250.00
18633.07	CLEAN & FILL JOINTS & CRACKS	LS	NEC	100.00
634.01	SURVEY AND STAKEOUT	LS	NEC	100.00
634.03	CONC. CYLINDER CURING BOX	EA	1	0.00
15634.0401	FURNISH MOBILE TELEPHONE EQUIP	MO	32	35.00
15634.040291	MESSAGE UNIT CHARGES FOR MOBILE TELEPHONE SERVICE	LS	NEC	25.99
14634.1002	PORTABLE VARIABLE MESSAGE DISPLAY UNITS	EA	4	0.00
637.0901	ENGINEERS OFFICE, TYPE E	MO	35	35.00
15637.31	MICROCOMPUTER SYSTEM	LS	NEC	100.00
644.0101	SINGLE CANTILEVER SIGN STRUCT	EA	2	0.00
644.0301	SINGLE SPAN SIGN STRUCTURE	EA	1	0.00
645.07	GUIDE SIGN - ALUMINUM	SF	213	0.00
645.14	OVERHEAD PANEL - ALUMINUM	SF	1,276	0.00
645.16	SECONDARY PANEL - ALUMINUM	SF	36	0.00
645.2052	TRAFFIC SIGN, 60 IN X 48 IN FURNISH & MOUNT PANEL ONLY	EA	4	0.00
645.258201	TRAF SIGN 18" WIDE RECTANGLE FOR & MNT PANEL ONLY	EA	1	0.00
11645.2599	STREET NAME SIGN 36"X9" (NYC)	EA	3	0.00
647.03	REMOVAL OF SIGNS SIZE D (41-100 SF)	EA	1	0.00
647.10	RELOCATING SIGNS SIZE A (0 TO 10 SF)	EA	6	0.00
647.11	RELOCATING SIGNS SIZE B (11 TO 20 SF)	EA	2	0.00
647.14	RELOCATING SIGNS SIZE E (OVER 100 SF)	EA	1	0.00
647.16	REMOVAL OF SIGNS-SIZE E (OVER 100 SF)	EA	3	0.00
10647.99	REMOVAL OF CANTILEVER SIGN STRUCTURE	EA	2	0.00
10654.0105	REM & STR INERTIAL BARRIER MODULES	EA	1	0.00
10654.0501	REM STR LIQUID FILLED CELL ATTENUATOR UNITS	EA	1	0.00
11654.1701	GU. RAIL TERM. IMP. ATTENUAT. L LOC. A	EA	1	0.00
15654.25	LIQUID FILLED CELL CLUSTER ATTENUATOR	EA	2	0.00
11654.51	REM STR & RESET LIQ FILLED CELL SHDWCH ATTENUATOR	EA	1	0.00
655.01	FRAMES AND GRATES (CASTINGS)	SF	120	0.00
655.03	FRAMES & GRATES (PARALLEL BAR TYPE)	SF	420	0.00
656.01	MISCELLANEOUS METALS	LB	300	0.00

ESTIMATE OF QUANTITIES				
ITEM NUMBER	DESCRIPTION	UNIT	QUANTITY	2
11660.0502	FLEXIBLE BRONZE HOSE (B G&E) - 3/4 IN DIA	LF	25	144.00
11660.0503	FLEXIBLE BRONZE HOSE (B G&E) - 1 IN DIA	LF	115	60.00
11660.0505	FLEXIBLE BRONZE HOSE (B G&E) - 1-1/2 IN DIA	LF	100	72.00
11660.0506	FLEXIBLE BRONZE HOSE (B G&E) - 2 IN DIA	LF	15	33.00
11660.0508	FLEXIBLE BRONZE HOSE (B G&E) - 3 IN DIA	LF	40	30.00
11660.0908	CONC ROADWAY BOX TYPE 2418 (BUR GAS & ELECT)	EA	3	6.00
11660.1006	CAST IRON JUNCT BOX, SURF MNTD 8 IN X 8 IN X 6 IN (B G&E)	EA	42	48.00
11660.1014	CAST IRON JUNCT BK SURF MOUNT 18 IN X 12 X 10 IN (BUR G&E)	EA	65	62.00
11660.1102	CAST IRON JUNCT BOX, FLUSH MNTD SIZE 2 (B G&E)	EA	73	74.00
11661.0302	INSULATED CONDUCTOR, NO. 12 (BG&E)	LF	198	160.00
11661.0305	INSULATED CONDUCTOR, NO. 6 (BG&E)	LF	8,602	5721.00
11661.0307	INSULATED CONDUCTOR, NO. 2 (BG&E)	LF	54,910	59824.00
11661.0309	INSULATED CONDUCTOR, NO. 2/0 (BG&E)	LF	105	680.00
11661.250402	CONT CAB, 6 RELAY SURF MNT 30X 36X12" AND ELECT EQUIP (BG&E)	EA	1	0.00
10670.0197	REMOVE FOUNDATION FOR LAMPPOST	EA	4	5.00
10670.0305	REMOVE & STORE LAMPPOST ASHBLV	EA	64	60.00
11670.112505	ALUM LMPST CONS OF 25'-0" SHFT 48'-0" BRKT ARM W/O TRANS BASE	EA	19	18.00
11670.112507	ALUM LMPST CONS OF 25'-0" SHFT 412'-0" BRKT ARM W/O TRANS BS	EA	55	56.00
11670.112511	ALUM LMPST CONS OF 25'-0" SHFT 48'-0" TWIN ARM W/O TRANS BASE	EA	4	5.00
670.2003	2 INCH GALV. STEEL CONDUIT	LF	723	1614.67
670.2005	4 INCH GALV. STEEL CONDUIT	LF	20	9.00
11670.2013	COND HOT-DIP GALV ST P1 INSTAL ON STRUCT BGE 3/4 IN DIA	LF	1,361	1051.00
11670.201401	COND. HOT-DIP, GALV ST P1 INSTL ON STRUC BGE 1 IN DIA	LF	919	1196.00
11670.201601	CONDUIT HOT-DIP GALV ST PIPE INS ON STRUCT (BG&E) 1-1/2" DIA	LF	3,111	3380.83
11670.2017	COND HOT-DIP GALV ST P1 INSTAL ON STRUCT BGE 2 IN DIA	LF	6,854	7653.00
11670.201801	CONDUIT HOT-DIP GALV ST PIPE INS ON STRUCT (BG&E) 3" DIA	LF	245	490.00
11670.202001	CONDUIT HOT-DIP GALV ST PIPE INS ON STRUCT 4" DIA (BG&E)	LF	10	0.00
670.240150	FLEXIBLE CONDUIT 1 1/2 IN DIA	LF	325	12.00
670.2402	FLEXIBLE CONDUIT 2 IN DIA	LF	50	3.00
11670.5101	150 W HI PRESS SOD VAPOR LAMP & LUM (BUR OF G & E)	EA	82	84.00
11670.540202	HI PRESS SOD UNDERDECK LUMIN W/BUILT IN BALLAST 100W	EA	12	12.00
11670.540203	HI PRESS SOD UNDERDECK LUMIN W/BUILT IN BALLAST 250 W	EA	36	36.00
11670.60	PHOTOELECTRIC CONTROL UNIT (BUR OF GAS & ELECTRICITY)	EA	14	3.00
18685.0901	WHITE EPOXY REFLECTORIZED PAVEMENT STRIPES (20 MILS)	LF	97,356	96953.24
18685.0902	YELLOW EPOXY REFLECTORIZED PAVEMENT STRIPES (20 MILS)	LF	20,986	20127.50
698.02	FUEL PRICE ADJUSTMENT	LS	NEC	0.00
699.04	MOBILIZATION	LS	NEC	100.00
40403.13	A-Asphalt Concrete type -3 Binder Course	T		183.88
40403.1701	A-Asphalt Course type 6F Top Course (High Frict.)	T		426.02
40403.1730	A-Asphalt Concrete type 6F	T		1403.14
40502.04	A- Cement Conc. Pave Reinf. CL-C	CY		182.41
40555.5505	A-Permanent Cast In Place Conc. Barrier	LF		7715.24
40564.510005	A- Structural Steel	LB		17507.52
40567.33	Armored Joint System With Compression Seal type A3	LF		1901.03
40567.34	Armored Joint System With Compression Seal type A4	LF		288.41
40567.35	Armored Joint System with Compression Seal type A5	LF		110.41
40567.36	Armored Joint System with Compression Seal type A6	LF		249.56
40567.37	Armored Joint System with Compression Seal type A7	LF		565.19
40567.38	Armored Joint System with Compression Seal type A8	LF		982.80
40582.05	Rem. of Struct. Repl. with CL-A Concrete	CY		4.19
40582.07	Rem of Struct. Conc.-Repl. with Vert. & Overhd Patch Mater.	SF		2876.74

ESTIMATE OF QUANTITY			
ITEM NUMBER	DESCRIPTION	UNIT	FINAL QUANTITY
40819.15	Pavement Delineation	LF	6042.60
40819.228301	Traffic Enforcement Agents	LS	0.00
40819.229302	Traffic Enforcement Agents	LS	100.00
40819.991601	Tow Truck Service	HR	6026.00
40833.0202	Cleaning Existing Pavement and Shoulders	SY	13924.99
40660.090801	Remove and Dispose of Rdwy Box Type 2418	EA	1.00
40661.0303	Insulated Conductor No. 10	LF	5438.00
40661.2411	Remove Lamppost Assembly	EA	1.00
40661.3406	Foundation for Alum. Lamppost with Transformer Base	EA	1.00
40670.200201	1-1/2 Inch Galv Steel Conduit	LF	22.25
950.01	Scupper Flange Attachment and Hanger for Downspout Pipe	EA	116.00
950.02	Reinforcing Bar Repair	LS	66.82
950.04	Structural Concrete Removal and Full Deck Repair	LS	26.38
950.06	Revised Drainage Work	LS	29.92
950.08	Southbound Bruckner Expresswy Ramp "Y" Modification	LS	71.35
950.10	Protective Sealing of Struct. Conc. for New Bldg.	LS	75.63
950.12	Remove, Dispose and Install New Liquid Filled Cell Attn.	LS	80.10
950.14	Remove and Install Frame & Cover	EA	6.00
950.16	Install Armored Joint Segment	LS	100.00
950.18	Reinforcing Bar Repairs	LB	27900.25
950.20	Repaint Structure	LS	100.00
950.21	Masonry Wall with Roll Up Door and Chain Link Fence	LS	100.00
950.22	Drilling & Installing Mechanical Anchor Bolts	EA	428.00

AS - BUILT REVISIONS					
1. Additional Items 2. Final Quantities					
		8-25-97			
SIGNATURE		DATE			
ESTIMATE OF QUANTITIES II					
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION					
DRAWING NO. EQ-2	SCALE NONE	DATE 5-6-1993	REGION 11		

IN CHARGE OF R.L.A. DESIGNED BY H.L. CHECKED BY B.A. ESTIMATED BY H.L. DRAFTED BY F.C. CHECKED BY B.P. DATE 10-10-94

FIELD CHANGE SHEET

CHANGE IN BID QUANTITIES FOR FIELD CHANGE SHEETS
NOS. 8F1, 123F1, 124F1, 125F1, 126F1, 127F1,
128F1, 129F1, 130F1, 131F1, 132F1, 133F1, 133 F2

GENERAL NOTES

1. THIS DRAWING SUPPLEMENTS CONTRACT DRAWING 3B.
2. ALL WORK SHOWN ON FIELD CHANGE SHEET DRAWING SHALL BE PERFORMED IN ACCORDANCE WITH THE NOTES AND REFERENCES IN 130F1, 131F1, 132F1, 133F1 AND 133 F2.

SUMMARY OF QUANTITIES FOR FIELD CHANGE SHEETS

SPECIFICATION ITEM	DESCRIPTION	QUANTITY CHANGE
(1) 604.501102	SPECIAL DRAINAGE STRUCTURES	+ 194.0 L.F.
(2) 556.2001	12" DUCTILE IRON PIPE (SUB-SURFACE PIPE)	+ 945.0 L.F.
655.01	FRAMES & GRATINGS (CASTINGS)	+ 177.0 S.F.
206.01	STRUCTURE EXCAVATION (CB & M.H.)	+ 122.0 C.Y.
206.02	TRENCH AND CULVERT EXCAVATION	+ 536.0 C.Y.
17304.1011	SUB-BASE COURSE TYPE 1011	+ 88.0 C.Y.
(3) 11623.12	CRUSHED STONE (IN PLACE MEASURE) BEDDING FOR SEWERS N.Y.C DEPT. OF ENVIRONMENTAL PROTECTION	+ 104.0 C.Y.
203.07	SELECT GRANULAR FILL	+ 6.0 C.Y.
10608.3102	REMOVE AND RESET STONE OR CONC. PAV'T. BLOCK	+ 743.0 S.F.
403.1701	ASPH. CONC. TYPE 6F TOP COURSE (HIGH FRICT.) MARSHALL DESIGN.	- 46.0 TONS.
552.05	TEMPORARY/SAFE OPERATION SHEET PILING.	+ 7970.0 S.F.
10502.5506	SAW CUTTING PORTLAND CEMENT CONC. & COMPOSITE PAVEMENTS	- 74.0 L.F.
566.2001	DOWN SPOUT PIPING	- 257.0 L.F.
502.06	CEMENT CONC. PAVE UNREINFORCED CL-C	- 127.0 C.Y.

- (1) THIS IS A NEW ITEM (604.501102) WHICH COVERS TYPE 2 AND TYPE 3 CATCH BASINS, ALSO TYPE A-1 AND A-3 MANHOLES. IT IS A N.Y.C. STANDARD DETAIL SHOWN ON SHEET NOS. 133F1 & 133 F2 WHICH REPLACES ALL RECTANGULAR DRAINAGE STRUCTURE (ITEM 604.302192) IN THE ORIGINAL QUANTITIES.
- (2) THIS IS A NEW ITEM (655.01) TO MEET N.Y.C. STANDARD FOR ITEM 604.50112. IT REPLACES ITEM 655.03 IN THE ORIGINAL QUANTITIES. REFER TO SHEET NOS. 133F1 AND 133 F2.
- (3) THIS IS A NEW ITEM (11623.12) WHICH REPLACES PART OF SELECT GRANULAR FILL (203.07) IN THE ORIGINAL QUANTITIES.

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		8F1/1	199
I-278 BRUCKNER EXPRESSWAY AND RAMPS				
REHABILITATION AT SHERIDAN INTERCHANGE				
PIN X730.28			BIN 1-06666-9	
			BIN 1-06666-F	
			BIN 1-06666-G	
			BIN 1-06666-H	

THIS SIGNATURE IS FOR THE APPROVAL OF THE FOLLOWING SHEETS:

SHEET NOS.: 8F1, 123F1, 124F1, 125F1, 126F1, 127F1, 128F1, 129F1, 130F1, 131F1, 132F1, 133F1, 133 F2.

Edward J. Petrou 10/13/94
EDWARD J. PETROU, P.E. DATE
DIRECTOR OF CONSTRUCTION REGION 11

FIELD SHEETS PREPARED BY
BLAUVELT ENGINEERS, P.C.
ONE PARK AVE. NEW YORK, N.Y. 10016

Robert L. Avison
ROBERT L. AVISON, P.E.
N.Y.P.E. 064772

NEW YORK STATE DEPARTMENT OF TRANSPORTATION
As Prepared By *Paul T. Wells* 3/13/95
PAUL T. WELLS Acting in his capacity as Deputy Chief Engineer (Construction)

AS-BUILT REVISIONS

1. Field change sheet quantities were not used

Paul T. Wells 2-24-97
SIGNATURE DATE

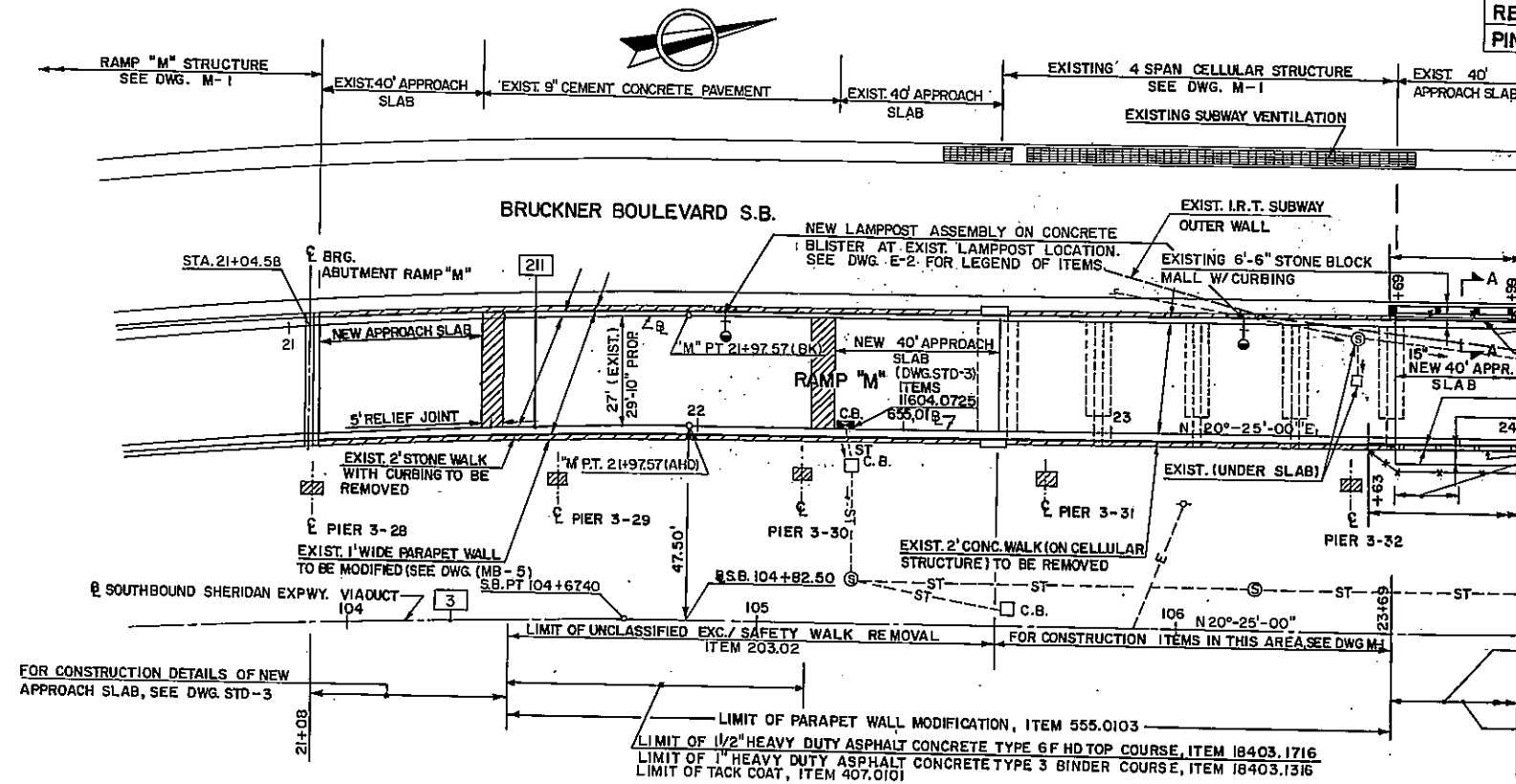
SUMMARY OF QUANTITIES AND GENERAL NOTES

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING NO.	SCALE	DATE	REGION
50-1	NONE	10-10-94	11

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		56	199
I-278 BRUCKNER EXPRESSWAY AND RAMPS				
REHABILITATION AT SHERIDAN INTERCHANGE				
PIN X730.28 BIN I-06666-9				

BIN I-06666-F
BIN I-06666-G
BIN I-06666-H



- BEGIN HEAVY POST BLOCKED-OUT CORR. BEAM GUIDE RAILING (WEST SIDE), ITEM 606.32
BEGIN REMOVAL AND DISPOSAL OF EXIST. 6' HIGH ALUMINUM C.L. FENCE, ITEM 11607.21
BEGIN REMOVE AND RESET STONE PAVEMENT BLOCKS AS REQUIRED
EXISTING 30' SLOPING CONC. WALL TO BE REMOVED, ITEM 580.01
PROPOSED REINFORCED CONC. PARAPET (23+69 TO 23+99) ITEMS 555.0103, 556.0202
PROPOSED HALF SECTION CONC. BARRIER
EXISTING 6' STONE BLOCK AREA
PROPOSED 15' HALF SECT CONC. BARRIER TRANSITION FROM PARAPET MODIF. SECTION TO HALF SECTION BARRIER SHAPE.
BEGIN REMOVAL OF EXIST. HEAVY POST BLOCKED-OUT CORRUGATED BEAM GUIDE RAILING, ITEM 606.72
BEGIN REMOVAL AND DISPOSAL OF EXIST. 6' HIGH ALUMINUM C.L. FENCE W/TOP WIRE, ITEM 11607.21.
LIMIT OF HALF-SECTION CONCRETE BARRIER TREATMENT W/BACK-UP POSTS AND CONTINUITY PLATES, ITEMS 11606.3156 & 10606.3299.
LIMIT OF 6' HIGH GALV. STL. C.L. FENCE AND POSTS (EAST SIDE) ITEMS 11607.03 & 11607.04
LIMIT OF 4' HIGH GALV. STL. C.L. FENCE AND POSTS ATOP THE HALF-SECTION CONCRETE BARRIER (WEST SIDE) ITEMS 11607.01 & 11607.02.

CURVE NO.	CURVE DATA	CURVE NO.	CURVE DATA
125	R = 1500.00' Δ = 6°05'-26.6" T = 88.68' L = 133.275'	211	R = 1522.77' Δ = 3°29'-55.8" T = 46.51' L = 92.99'
127	R = 3000.00' Δ = 4°53'-31.1" T = 128.15' L = 256.14'	134	R = 3000.00' Δ = 3°14'-10.0" T = 84.74' L = 169.44'
128	R = 250.00' Δ = 40°51'-26.2" T = 93.31' L = 178.64'	135	R = 250.00' Δ = 33°41'-53.0" T = 75.71' L = 147.04'
130	R = 150.00' Δ = 12°33'-43.6" T = 16.51' L = 32.89'	136	R = 150.00' Δ = 12°35'-00.2" T = 16.54' L = 32.94'
131	R = 280.51' Δ = 16°29'-15.1" T = 40.64' L = 80.72'	137	R = 280.51' Δ = 9°16'-59.3" T = 22.73' L = 45.37'
132	R = 150.00' Δ = 12°18'-28.9" T = 16.17' L = 32.22'	138	R = 150.00' Δ = 12°19'-51.0" T = 16.20' L = 32.28'

LEGEND		
DESCRIPTION	EXISTING	PROPOSED *
CATCH BASIN		C.B.
CURVE IDENTIFICATION	21	21
COLUMN OF ELEVATED STRUCTURE		
ELECTRIC (UNDERGROUND)	---	---
PARAPET WALL OR CONCRETE BARRIER		
PARAPET WALL		(EXIST. W/MODIFICATIONS)
LAMPPOST		
GUIDE RAIL		
FENCE		
MANHOLES: STORM		
ELECTRIC		
TELEPHONE	---	---
CATCH BASIN	C.B.	C.B. (NEW)
FIRE COMMUNICATIONS	---	---
STORM SEWER	---	---
UNDERGROUND CONDUIT LIGHTING	---	---
TRAFFIC SIGNALS	---	---
WATER	---	---

- * C.B. PROPOSED C.B.; REBUILD TOP, NEW FRAME AND GRATE
S PROPOSED STORM M/H: ADJUST TO GRADE, NEW FRAME AND COVER
E PROPOSED ELECTRIC M/H: ADJUST TO GRADE NEW FRAME AND COVER

NOTES

- FOR SECTION A-A, SEE DWG. NO. RD-1.
- FOR EXIST. UTILITIES ON BRUCKNER BLVD. AND RAMPS 'M' AND 'P' SEE ALSO DWG. NOS. DP-1 TO DP-4, CG-1, CG-2, AND LIGHTING PLANS
- CONSTRUCTION OF ITEMS 11604.0725, 11604.070103, 655.01 TO BE IN ACCORDANCE WITH "CITY OF NEW YORK, DEPARTMENT OF ENVIRONMENTAL PROTECTION, SEWER DESIGN STANDARDS" BOOK, PAGES 20, 25, 27, 28 AND APPLICABLE MANHOLE STANDARDS A.O.B.E.

PAVEMENT REPAIR NOTES:

- PAVEMENT REPAIR LOCATIONS AND TYPES WILL BE DETERMINED BY THE ENGINEER.
- PAVEMENT REPAIR DETAILS ARE SHOWN ON DRAWINGS PD-1 TO PD-4.

CONSTRUCTION LIMITATION NOTE FOR RAMPS 'M' & 'P'
SEE DWG. MPT-7

AS - BUILT REVISIONS

SIGNATURE _____ DATE _____

ROADWAY PLAN I

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

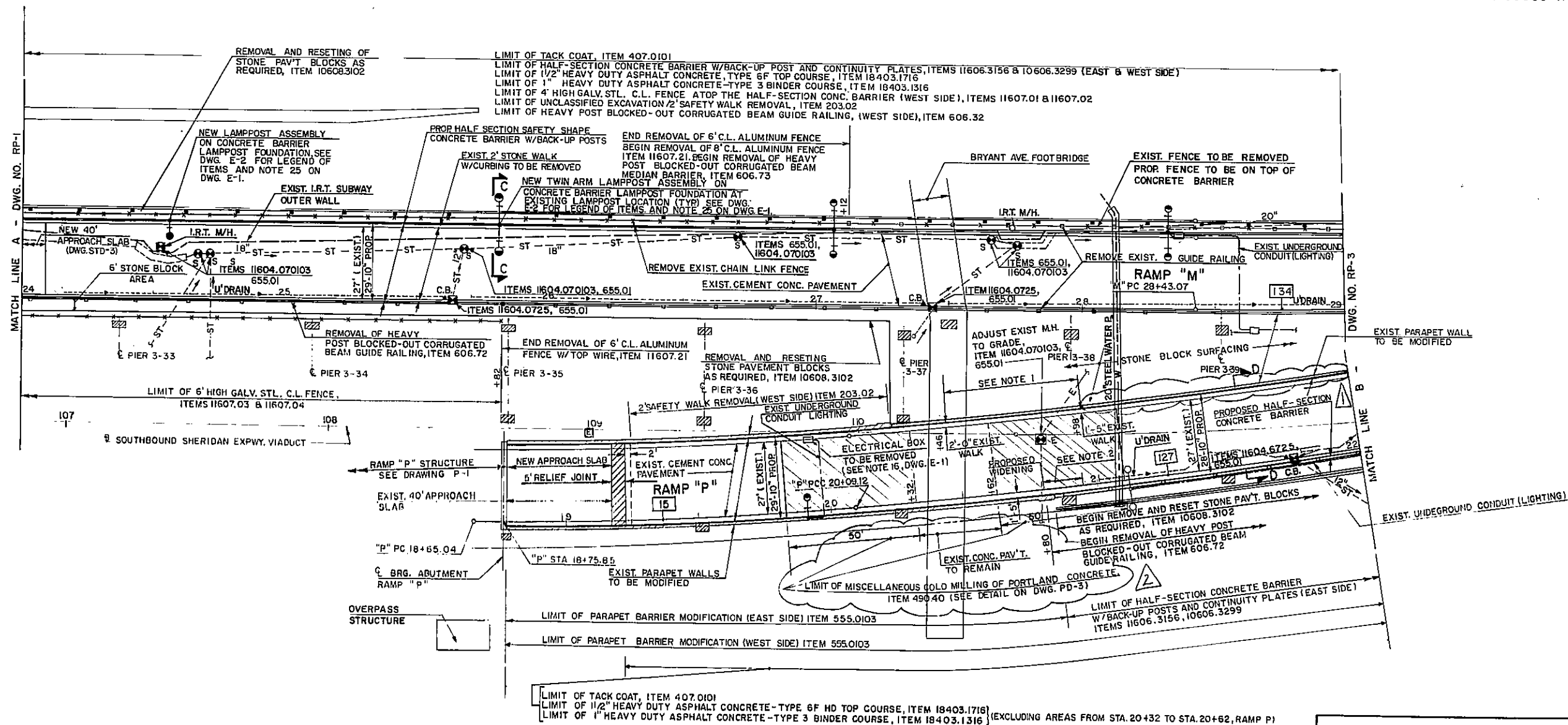
DRAWING NO. RP-1 SCALE 1" = 20' DATE 12-29-92 REGION II

D254313

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NY		57R1	199

**I-278 BRUCKNER EXPRESSWAY AND RAMPS
REHABILITATION AT SHERIDAN INTERCHANGE**
PIN X730.28 BIN I-06666-9

BIN I-06666-F
BIN I-06666-G
BIN I-06666-H



NOTES:

1. THE PROPOSED PARAPET MODIFICATION, IN THIS AREA FOLLOWS THE EXIST PARAPET SAFETY WALK TAPER.
2. THE PROPOSED ROADWAY WIDENING, IN THIS AREA, CHANGES FROM 1'-5" TO 12" AT 15:1 TAPER. (SEE DWG. NO. MB-7).
3. FOR SECTION C-C, RAMP "M" TYPICAL SECTION, SEE DWG. NO. TS-6. FOR SECTION D-D, RAMP "P" TYPICAL SECTION, SEE DWG. NO. TS-5.
4. FOR LAMPOST ASSEMBLIES, SEE LIGHTING PLANS.
5. FOR PAVEMENT REPAIRS AT CATCH BASINS AND MANHOLES SEE DWG. PD-3.
6. FOR PAVEMENT TRANSITION AT BRYANT AVE UNDERPASS, SEE DWG. PD-3.
7. ITEM 11604.070103, ALL EXIST. SEWER MANHOLE ADJUSTMENTS ARE ALSO COVERED UNDER THIS ITEM. REFER TO SHT. NO. 56 & 58.
8. SEE NOTES 2 AND 3, DWG. RP-1.

AS - BUILT REVISIONS

1. NEW HALF SECTION BARRIER AND BACKUP POSTS
2. WORK DELETED FROM CONTRACT

Kevin L. Landon 5-25-97
SIGNATURE DATE

ROADWAY PLAN II

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING NO. RP-2 SCALE 1" = 20' DATE 4-6-93 REGION II

BIN 1-06666 -F
BIN 1-06666 -G
BIN 1-06666 -H

1. THE PROPOSED HALF-SECTION CONCRETE BARRIER WALL SHALL BE PLACED AT AN OFFSET FROM THE EXISTING CURB LINE OF 1'-5" AT STA. 29+03.90 AND AT 0-41" AT STA. 29+11.30 TO MATCH WITH EXISTING LOCATION OF MODIFIED PARAPET WALL AT STA. 29+11.30. (DWG. NO. MB-6).
2. FOR SECTION A-A OF RAMP 'M', SEE TYPICAL SECTIONS ON DWG. TS-6.
3. FOR SECTION B-B OF RAMP 'P', SEE TYPICAL SECTIONS ON DWG. TS-5.
4. AFTER ASPHALT CONCRETE MATERIAL IS PLACED IN PAVEMENT DEPRESSIONS (ITEM 403.2), THE AREA SHALL BE EXPOSED TO TRAFFIC AND ANY OCCURRED RAVELING SHALL BE REMOVED FROM THE PAVEMENT A.O.B.E.
ANY VOIDS CREATED BY THE EXPOSURE TO TRAFFIC SHALL BE FILLED WITH ASPHALT CONCRETE, TYPE GF AND SHALL BE PAID FOR BY ITEM 403.170I.
5. THE CONTRACTOR SHALL REPAIR EXISTING BRIDGE BOX BEAM RAIL AT TIEING POINT WITH PROPOSED IF REQUIRED, A.O.B.E. COST TO BE INCLUDED IN ITEM 15606.3202.
6. SEE NOTES 2 AND 3, DWG RP-1.
7. FOR EXIST. UTILITIES SEE ALSO DWGS CG-1, CG-2 AND DP-1 TO DP-4.

1. New Concrete Base From Sta 30+00 to Sta 32+00
2. Drainage Structure and Ductile Pipe Deleted From Contract

W. L. Cunningham 3-26-97
SIGNATURE DATE

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING NO. RP-3	SCALE 1" = 20'	DATE 12-29-92	REGION
---------------------	-------------------	------------------	--------

DATE 7-13-1994

D.K.

CHECKED BY

E.S.

DRAFTED BY

D.K.

CHECKED BY

H.L.

ESTIMATED BY

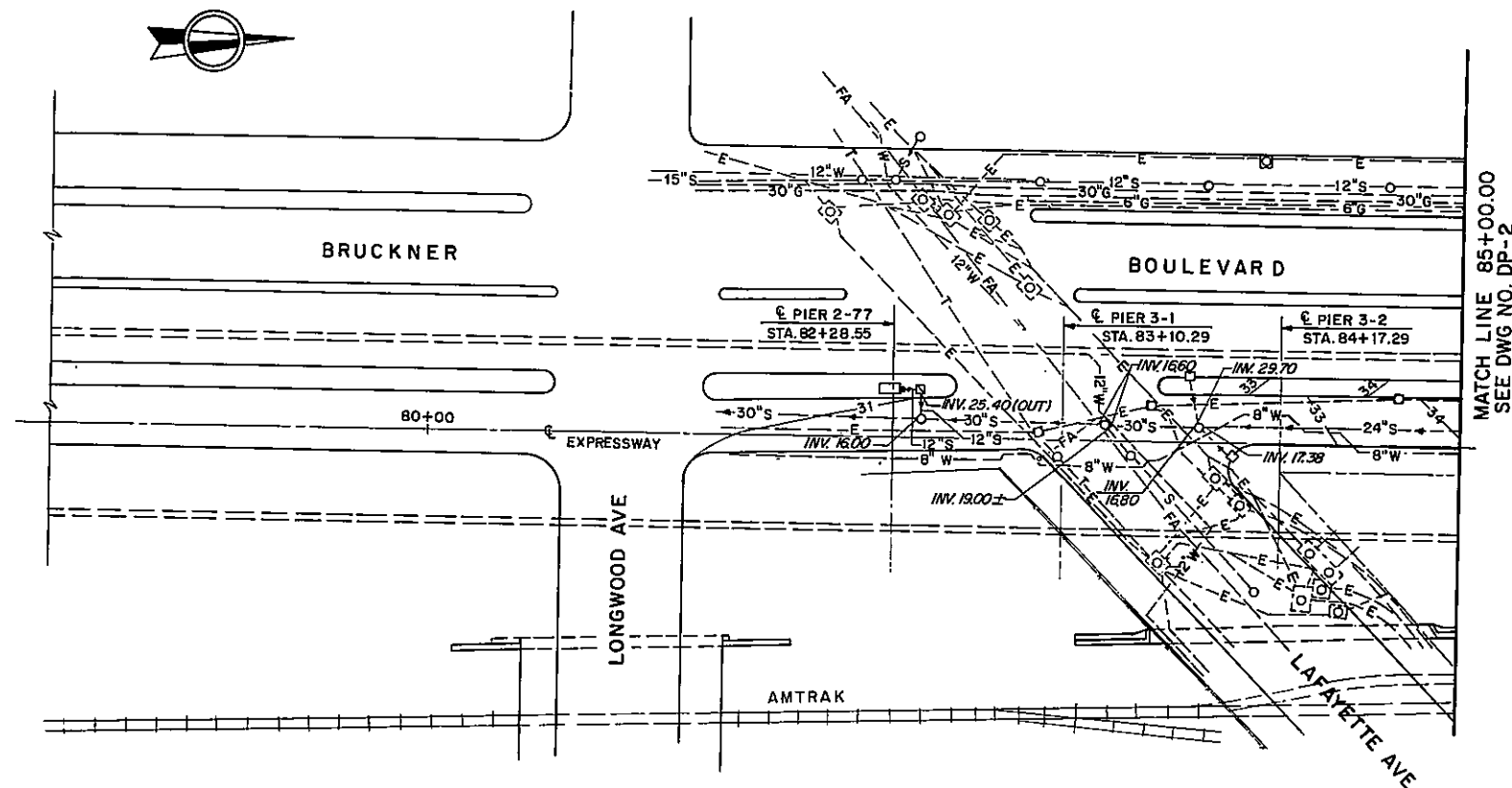
H.L.

CHECKED BY

J.S.

DESIGNED BY

R.L.A.

IN CHARGE OF
NO. 27-29 (5/88)

PLAN

GENERAL DRAINAGE NOTES

1. THE E.I.C. SHALL KEEP AN INVENTORY OF ALL DRAINAGE HARDWARE DELIVERED TO THE CITY AND APPRAISE ITS COST.
2. AT THE COMPLETION OF DELIVERY OF THE NOTED HARDWARE TO THE CITY, THE E.I.C. SHALL PROCESS A CREDIT TO BE APPLIED TO THE FEDERAL PARTICIPATION SHARE. THE CREDIT SHALL INCLUDE THE COST OF THE 12 (TWELVE) GRATES TYPE A AND THE 12 (TWELVE) GRATES TYPE B TO BE DELIVERED TO THE CITY.
3. ANY DAMAGE TO MANHOLES CAUSED BY THE CONTRACTORS WORK SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR, AS DIRECTED BY THE ENGINEER, AT NO COST TO THE STATE.
4. WHERE THE HEIGHT OF AN EXISTING MANHOLE PERMITS MORE THAN ONE BASIN CONNECTION TO BE MADE ON THE SAME WALL, SPECIAL PRECAUTION SHALL BE TAKEN TO PROTECT THE STRUCTURAL INTEGRITY OF THE MANHOLE. THE MINIMUM CLEARANCE BETWEEN THE OUTSIDE WALLS OF ANY TWO BASIN CONNECTIONS OR BETWEEN A BASIN CONNECTION AND A SEWER, VERTICALLY OR HORIZONTALLY, SHALL BE 12 INCHES.
5. CATCH BASINS SHALL NOT, UNDER ANY CIRCUMSTANCES, BE CONNECTED TO A SANITARY SEWER.
6. ALL NEW CATCH BASIN CONNECTIONS SHALL BE CONNECTED TO EXISTING SEWERS AT MANHOLES, WITH 12" DIAMETER DUCTILE IRON PIPE, CLASS 56, WITH INTERNALLY LOCKED "PUSH-ON" JOINTS LAD ON 6" OF BROKEN STONE FOR ENTIRE WIDTH OF THE TRENCH AND FOR ONE-HALF THE PIPE DIAMETER. THE BROKEN STONE SHALL BE HARD UNWEATHERED STONE, UNIFORMLY GRADED FROM 1/4" TO 3/4" IN DIAMETER. IT SHALL CONFORM TO COMMERCIAL 1/4" TO 3/4" STONE. ALL NEW CATCH BASINS SHALL HAVE A HOOD ON THE OUTLETTING PIPE.
7. CATCH BASINS SHALL NOT BE LOCATED WITHIN PEDESTRIAN CROSSWALK LIMITS. CATCH BASINS NEAR BUS STOP PADS SHALL BE LOCATED EITHER ENTIRELY WITHIN OR OUTSIDE OF BUS STOP PADS.
8. CATCH BASINS IN THE PROJECT AREA SHALL BE MAINTAINED OPERABLE AT ALL TIMES. IF, AS A RESULT OF CONSTRUCTION, A FLOODING CONDITION OCCURS AT AN INTERSECTION OR THROUGH LANE, WITHIN THE PROJECT LIMITS, THE CONTRACTOR SHALL BE REQUIRED TO CORRECT SAID CONDITION IN A MANNER APPROVED BY THE ENGINEER. SAID COST SHALL BE DEEMED INCLUDED IN THE PRICE BID FOR THE RESPECTIVE DRAINAGE ITEMS.
9. EXCAVATION FOR CATCH BASINS SHALL NOT EXTEND BELOW THE INFLUENCE LINES OF THE FOOTINGS.

- EXISTING SUPERSTRUCTURE INLET TO BE SEALED.
- NEW CATCH BASIN TYPE-3, ITEM 604.50103 WITH NYC DEP STANDARD CAST IRON FRAME AND GRATING (WITHOUT CURB PIECE) ITEM 655.01 AND STANDARD C.I. MANHOLE FRAME AND COVER, ITEM 655.01
- EXISTING SEWER TO BE ABANDONED.
- EXISTING COMBINED SEWER.

0254615

FED. ROAD REQ. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		123 F1	129
I-278 BRUCKNER EXPRESSWAY AND RAMPS REHABILITATION AT SHERIDAN INTERCHANGE				
PIN X730.28		BIN I-06666-9		
		BIN I-06666-F		
		BIN I-06666-G		
		BIN I-06666-H		

SEE SHEET 0F1 FOR APPROVAL
SIGNATURE.

NOTES

1. FOR DOWNSPOUT LAYOUT AND DETAILS SEE DWGS. DP-5 THRU DP-11.
2. FOR BRIDGE DRAIN ADJUSTMENT AND NEW GRATING DETAILS, SEE DWG. DP-12.
3. REPLACEMENT OF EXISTING GRATING SHALL BE DONE PRIOR TO SHIFTING THE TRAFFIC.
4. LOCATION AND SIZES OF EXISTING SEWERS AND TYPE OF INLETS SHOWN ARE BASED ON "AS BUILT" DRAWINGS (CONTRACT FIVE 60-11), AVAILABLE AT REQUEST FROM THE NYS DOT.
5. REMOVAL AND DISPOSAL OF EXISTING INTERCEPTING INLETS OR CATCH BASINS WHERE INDICATED ON DRAWINGS TO BE PAID FOR UNDER ITEM 203.02.

LEGEND

- EXIST. SCUPPER ON BRIDGE
- NEW 12" DIA. DOWNSPOUT PIPING
- EXISTING INVERT ELEVATION
- PROPOSED INVERT ELEVATION
- NEW 12" DIA. BASIN CONNECTION
- EXIST. INTERCEPTING CATCH BASIN
- CATCH BASIN NO.1
- EXIST. STORM SEWER
- EXIST. WATER MAIN
- EXIST. GAS MAIN
- EXIST. CONTOUR
- EXIST. PIERS
- NEW CATCH BASIN TYPE-2 (ITEM 604.50102)
- FIRE ALARM
- ELECTRIC
- NEW MANHOLE
- EXISTING CATCH BASIN
- PLUG END OF EXISTING PIPE WITH CONCRETE, 1'±
- EXISTING INTERCEPTING INLET OR CATCH BASIN TO BE ABANDONED, FILLED AND SEALED.

AS - BUILT REVISIONS

SIGNATURE

DATE

DRAINAGE PLAN I

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING NO. DP-1 SCALE 1"=40'-0" DATE 5-29-1994 REGION II

D254515

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		1234	199

I-278 BRUCKNER EXPRESSWAY AND RAMPS
REHABILITATION AT SHERIDAN INTERCHANGE

PIN X730.28 BIN I-06666-9

BIN I-06666-F




BIN I-06666-G

BIN I-06666-H

NOTES

1. FOR DOWNSPOUT LAYOUT AND DETAILS
SEE DWGS. DP-5 THRU DP-11.
2. FOR BRIDGE DRAIN ADJUSTMENT AND NEW
GRATING DETAILS, SEE DWG. DP-9.
3. REPLACEMENT OF EXISTING GRATING SHALL
BE DONE PRIOR TO SHIFTING THE TRAFFIC.
4. THE ARROW AT PROPOSED SPLASH BLOCK
DESIGNATES THE DIRECTION OF THE STORM FLOW.
5. LOCATION AND SIZES OF EXISTING SEWERS AND
TYPE OF INLETS SHOWN ARE BASED ON "AS
BUILT" DRAWINGS (CONTRACT FIVE-60-1)
6. FOR NEW FRAME AND GRATE, SEE DWG. DP-12
7. CLEAN EXISTING DRAINAGE SYSTEM ITEM 15566.1302.

LEGEND

- ☐ A EXIST. SCUPPER ON BRIDGE
☐ B EXIST. SCUPPER ON BRIDGE
 — NEW 12" DIA. DOWNSPOUT PIPING
 NEW 12" DIA. DOWNSPOUT WITH SPLASH BLOCK
 NEW 12" DIA. DOWNSPOUT CONNECTION
 TO UNDERGROUND
☒ OR ☐ EXIST. RECEIVING BASIN CONNECTED TO DOWNSPOUT
 O-S-→ EXIST. SEWER (WITH M.H.)
 ---W--- EXIST. WATER MAIN
 ==G== EXIST. GAS MAIN
 -20- EXIST. CONTOUR
 NEW FIELD INLET
 -FA- FIRE ALARM
☒ E ELECTRIC CONDUIT (WITH M.H.)
☐ ---S--- EXIST. SEWER (WITH C.B.)

AS - BUILT REVISIONS

1. New Field Inlet Deleted and Replaced with
splash pad.

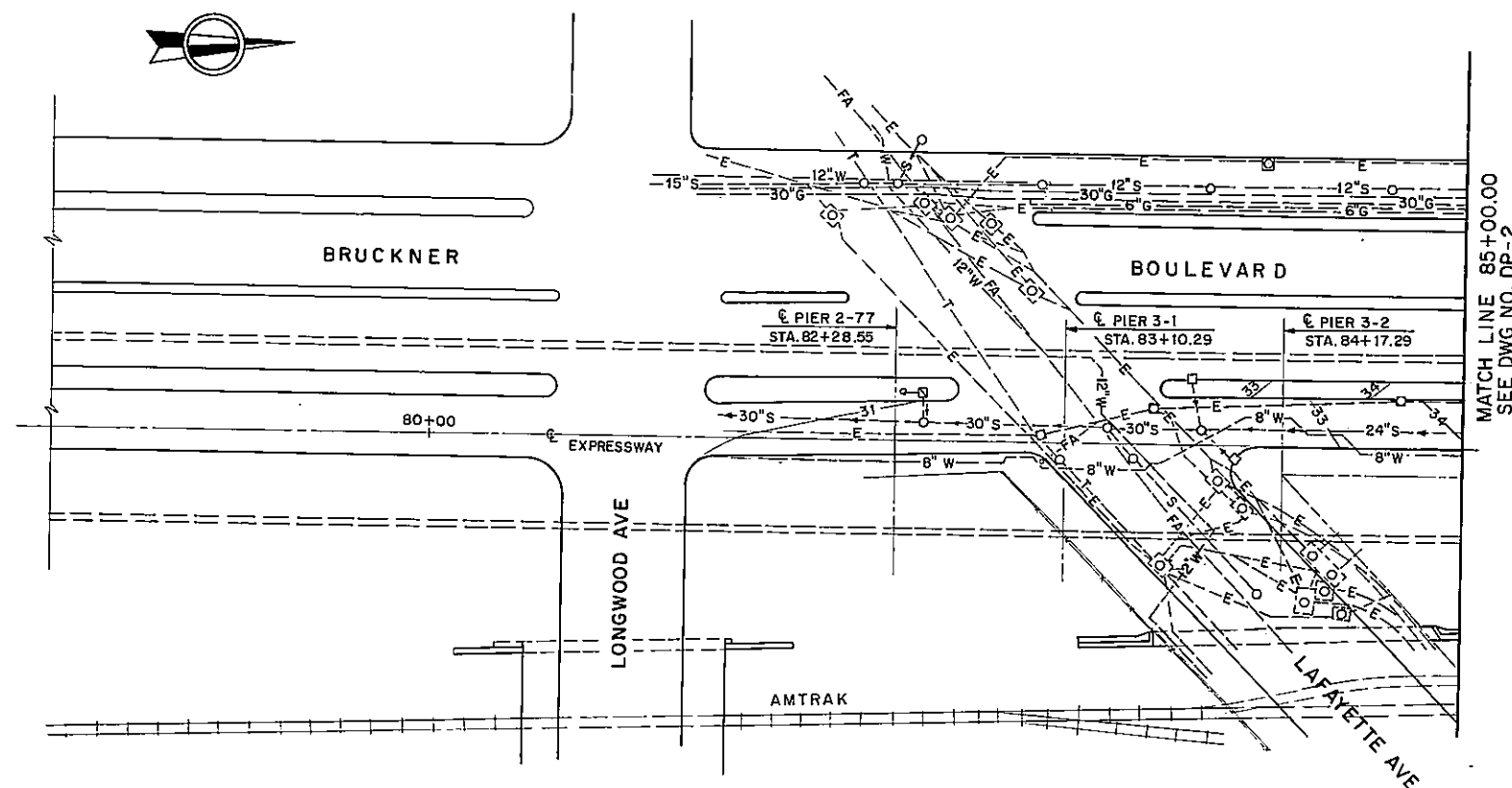
Paul Henderson
SIGNATURE

4-17-97
DATE

DRAINAGE PLAN I

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING NO.	SCALE	DATE	REGION
DP-1	1" = 40'-0"	12-29-92	II



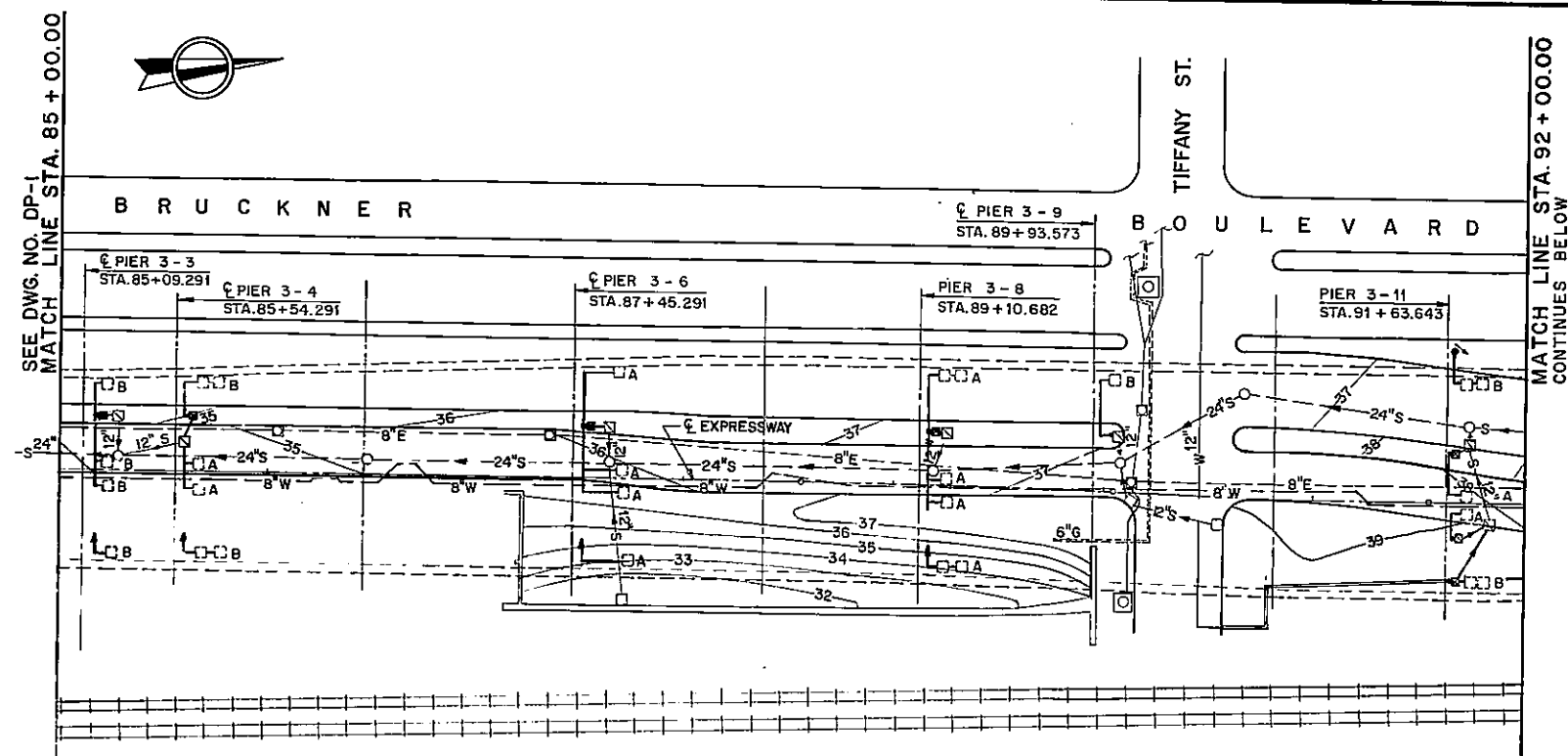
MATCH LINE 85+00.00
SEE DWG NO. DP-2

PLAN

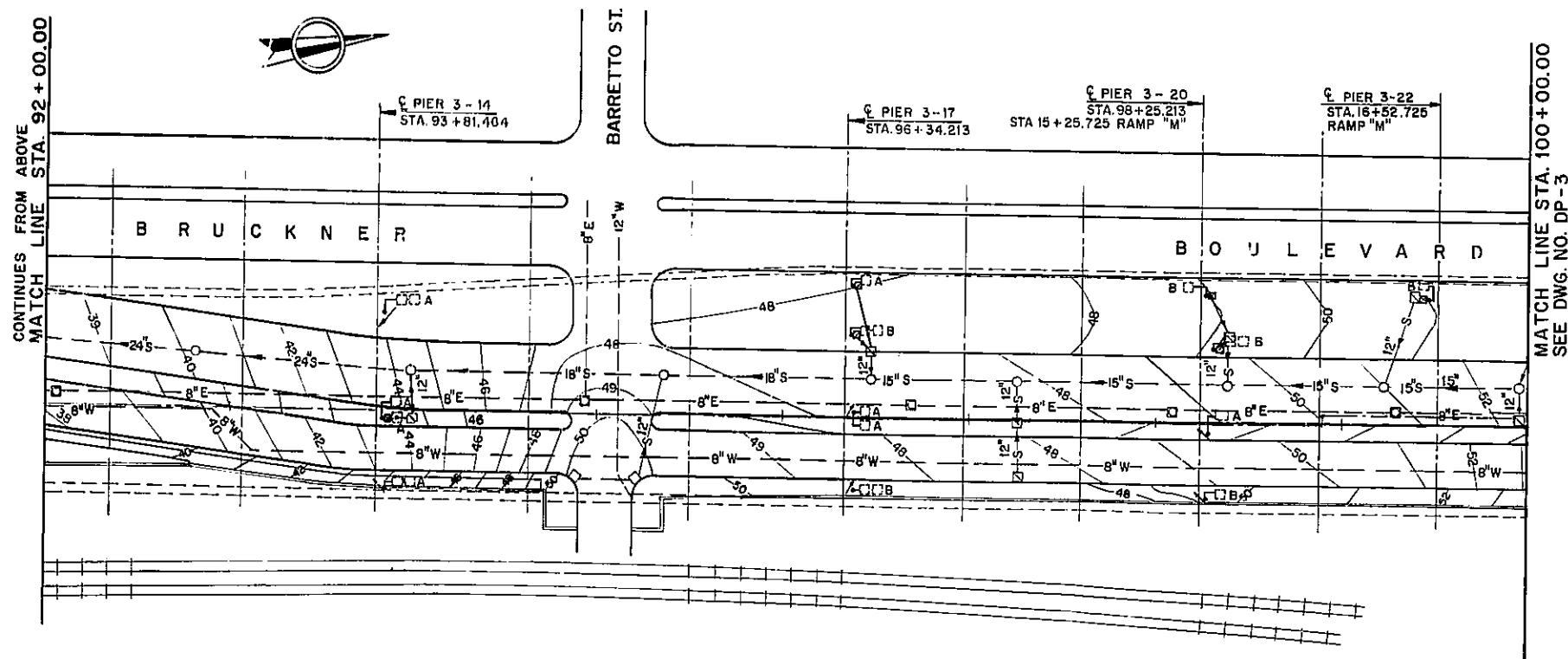
D084915

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		124	199

I-278 BRUCKNER EXPRESSWAY AND RAMPS
REHABILITATION AT SHERIDAN INTERCHANGE
PIN X730.28 BIN I-06666-9
BIN I-06666-F
BIN I-06666-G
BIN I-06666-H



PLAN



PLAN

AS - BUILT REVISIONS

1. New Field Inlet Deleted and Replaced with splash pad.

Eric Henderson 4-17-97
SIGNATURE DATE

DRAINAGE PLAN II

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING NO. DP-2 SCALE 1" = 40' 0" DATE 12-29-92 REGION II

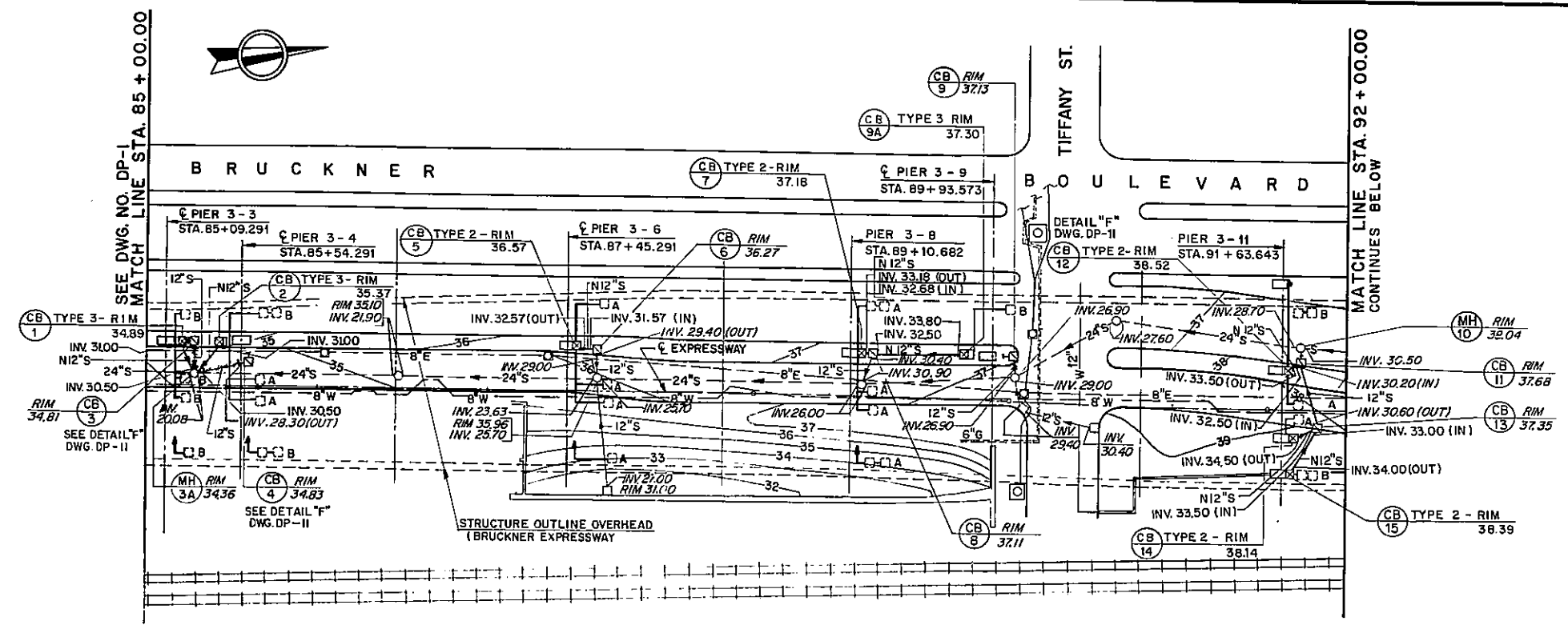
HC 47 2b (5/88) CHARGE OF RLA DESIGNED BY L.C. CHECKED BY A.P. ESTIMATED BY A.P. DRAFTED BY L.C. CHECKED BY M.B. DATE

HC 47 2b (5/88)
IN CHARGE OF
RLA
DESIGNED BY
J.S.
CHECKED BY
H.L.
ESTIMATED BY
H.L.
CHECKED BY
H.L.
DRAFTED BY
DK
CHECKED BY
ES
DATE
7-13-1994
DK

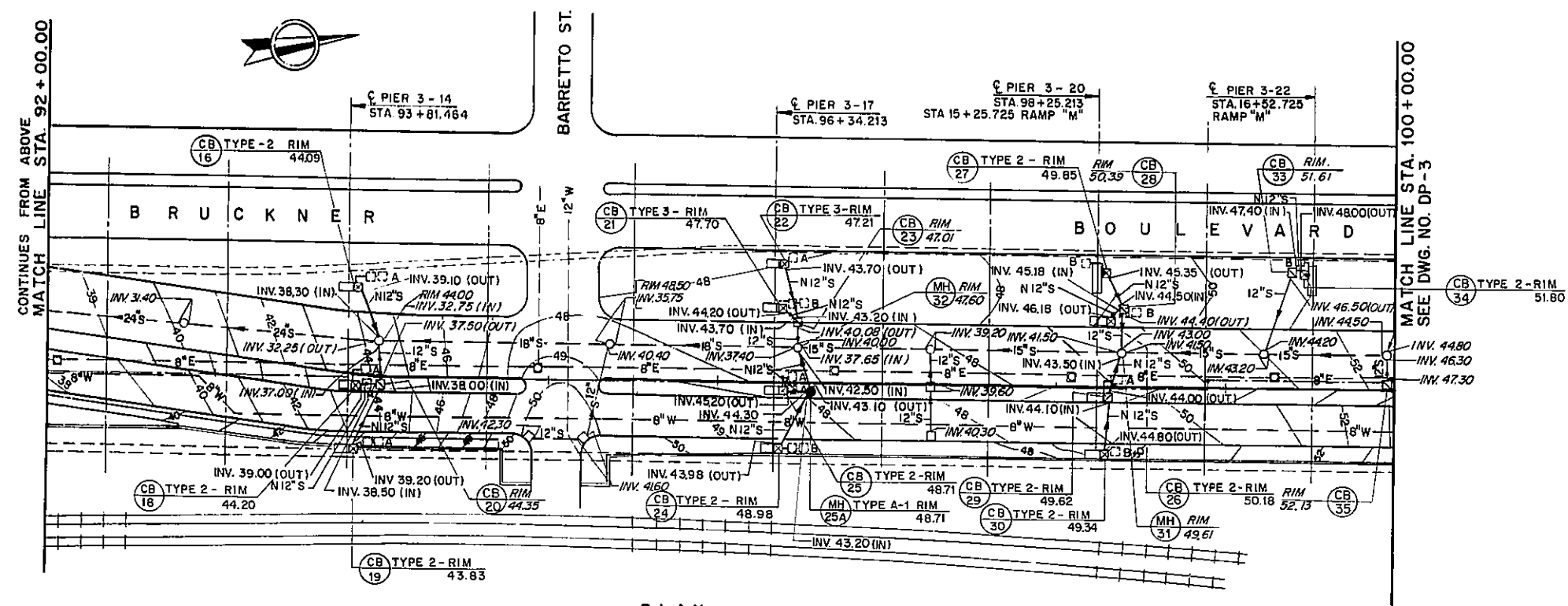
0254615

FED. ROAD REQ. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		124 F1 199	199
I-278 BRUCKNER EXPRESSWAY AND RAMPS REHABILITATION AT SHERIDAN INTERCHANGE				
PIN X730.28		BIN I-06666-9		
		BIN I-06666-F		
		BIN I-06666-G		
		BIN I-06666-H		

SEE SHEET 8F1 FOR APPROVAL
SIGNATURE.



PLAN



PLAN

AS - BUILT REVISIONS

- 1. New Field Inlet Deleted and Replaced with splash pad.

Carl R. [Signature]
SIGNATURE
4-17-97
DATE

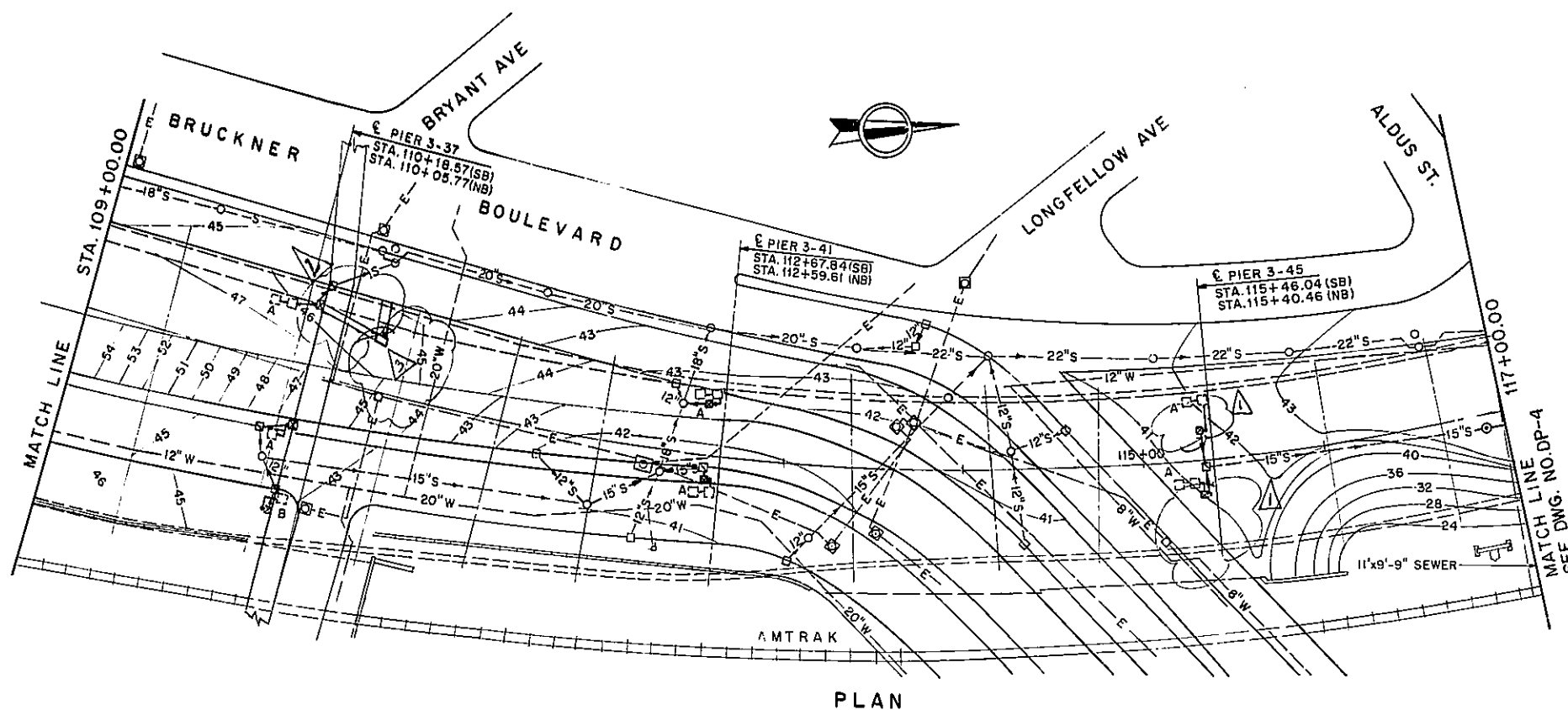
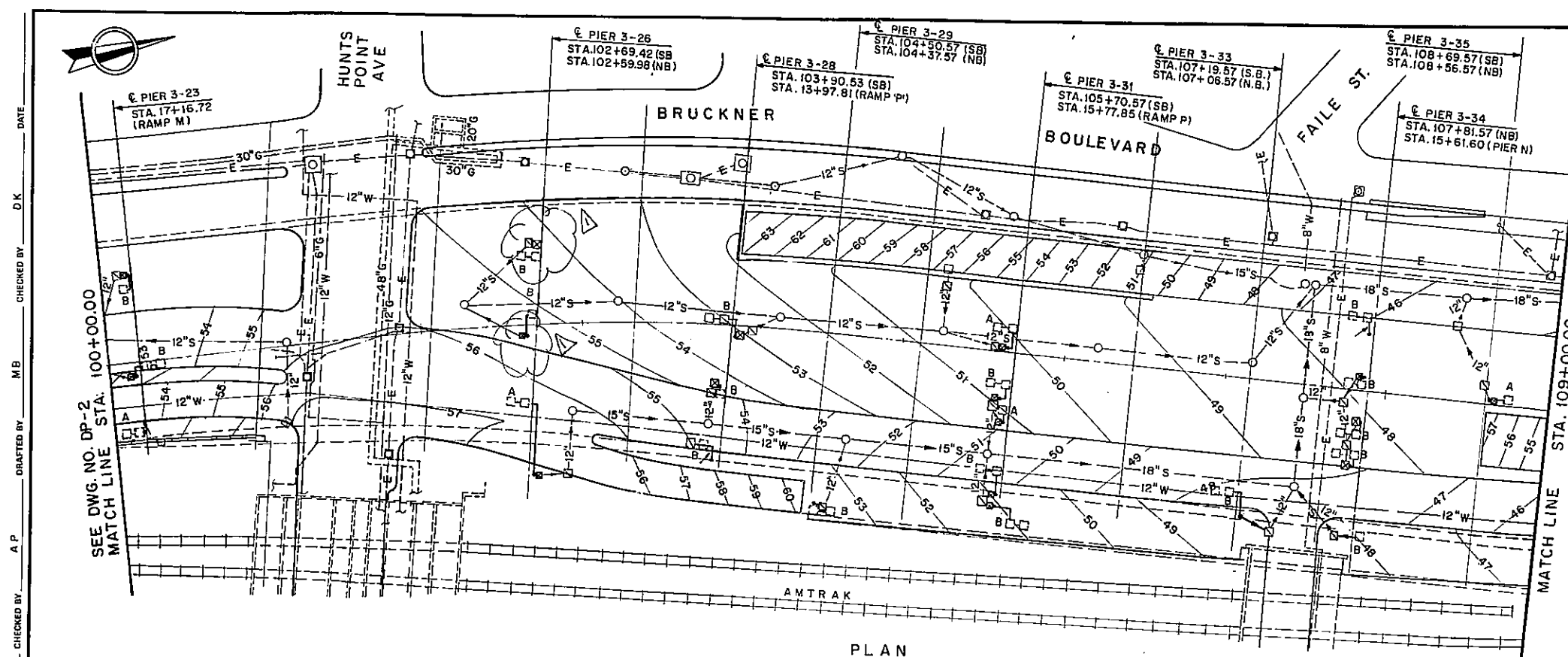
DRAINAGE PLAN II

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING NO.	SCALE	DATE	REGION
DP-2	1"=40'-0"	8-29-1994	II

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		125R	199

I-278 BRUCKNER EXPRESSWAY AND RAMPS
REHABILITATION AT SHERIDAN INTERCHANGE
 PIN X730.28 BIN I-06666-9
 BIN I-06666-F
 BIN I-06666-G
 BIN I-06666-H

**AS - BUILT REVISIONS**

1. Installed new CB. Paved over. No connections made
2. Paved surface drain
3. New Catch Basin
4. Apart from 1, 2, and 3, No other drainage work was performed on this sheet.

[Signature]
SIGNATURE

3-26-97
DATE

DRAINAGE PLAN III

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING NO. DP-3 SCALE 1"=40'-0" DATE 12-29-92 REGION II

D254615

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	NY		125 F1	199

I-278 BRUCKNER EXPRESSWAY AND RAMP
REHABILITATION AT SHERIDAN INTERCHANGE
PIN X730.28

BIN I-06666-9
BIN I-06666-F
BIN I-06666-G
BIN I-06666-H

SEE SHEET B F1 FOR APPROVAL
SIGNATURE.

REMOVE EXISTING BASIN ITEM 203.02;
REPLACE WITH TYPE-3 CATCH BASIN ITEM 604.50103

AS - BUILT REVISIONS

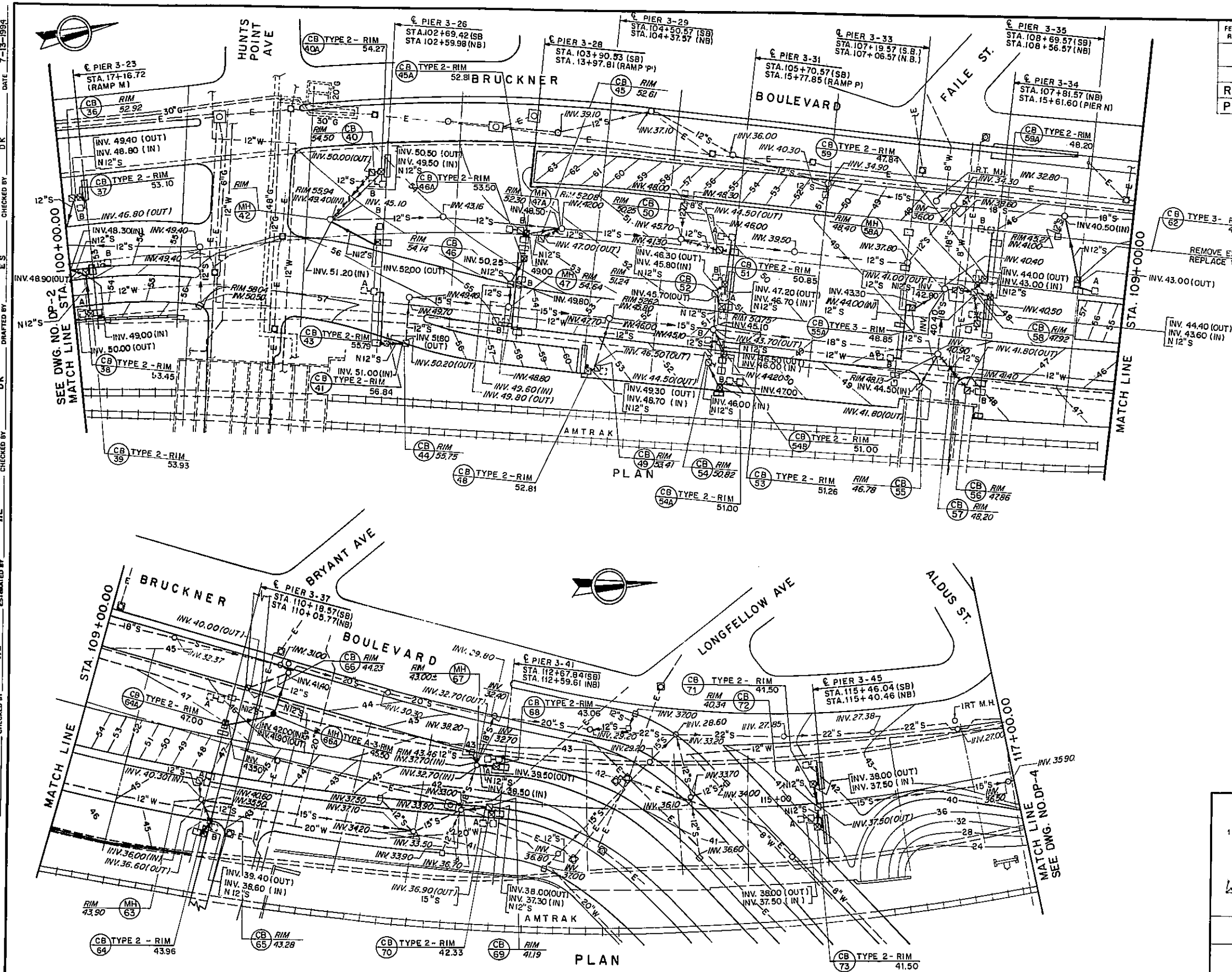
1 For drainage work performed on this sheet, refer to sheet no. 125R1

[Signature] 3-26-97
SIGNATURE DATE

DRAINAGE PLAN III

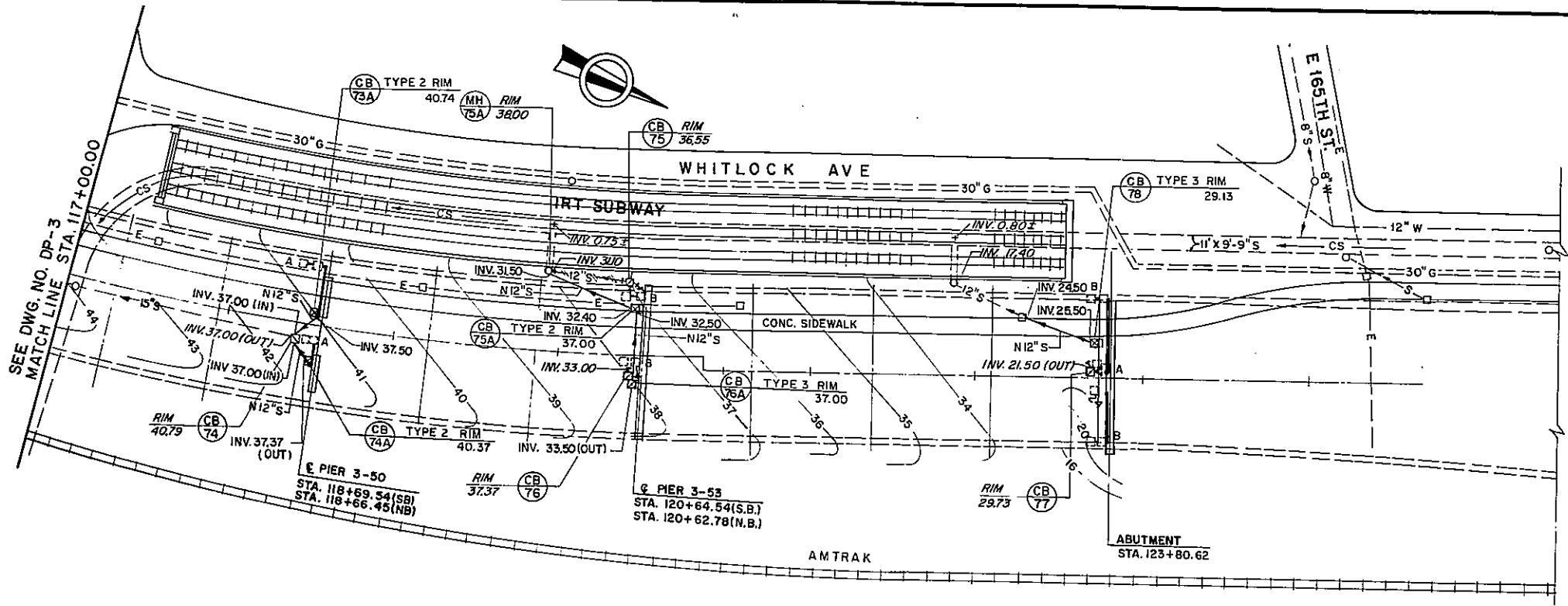
STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING NO.	SCALE	DATE	REGION	II
DP-3	1"=40'-0"	8-29-1994		



DATE 7-13-1994
CHECKED BY D.K.
DESIGNED BY R.L.A.
IN CHARGE OF

DATE 7-13-1994
CHECKED BY DK
ES
DRAFTED BY DK
CHECKED BY HL
ESTIMATED BY HL
CHECKED BY JS
DESIGNED BY JLA
IN CHARGE OF



PLAN

D254615

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		126 F1	199
I-278 BRUCKNER EXPRESSWAY AND RAMP REHABILITATION AT SHERIDAN INTERCHANGE				
PIN X730.28		BIN I-06666-9		
		BIN I-06666-F		
		BIN I-06666-G		
		BIN I-06666-H		

SEE SHEET 8F1 FOR APPROVAL SIGNATURE.

AS - BUILT REVISIONS

1. New Field Inlet Deleted From Contract

Eric Pennington 4-18-97
SIGNATURE DATE

DRAINAGE PLAN IV

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

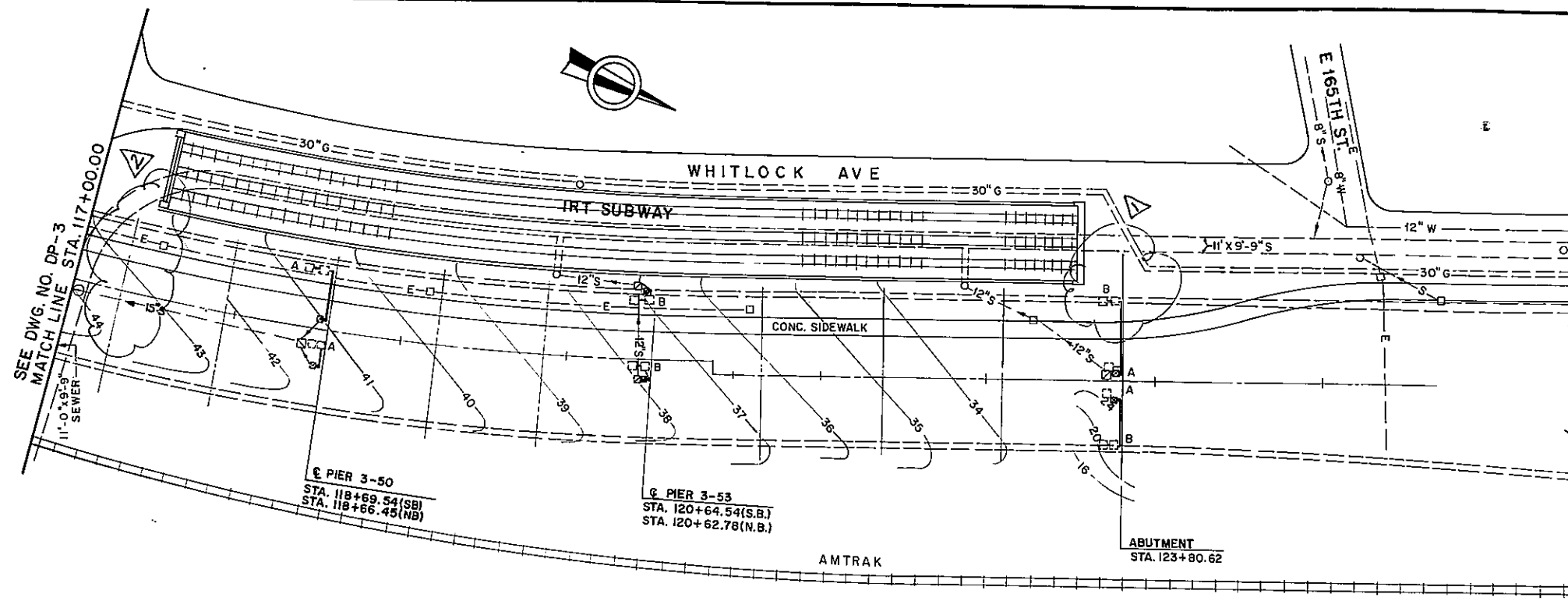
DRAWING NO.	SCALE	DATE	REGION
DP-4	1" = 40'-0"	8-29-1994	II

1254515

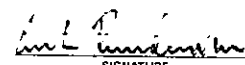
FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		126R	199

I-278 BRUCKNER EXPRESSWAY AND RAMP
REHABILITATION AT SHERIDAN INTERCHANGE

PIN X730.28 BIN I-06666-9
BIN I-06666-F
BIN I-06666-G
BIN I-06666-H



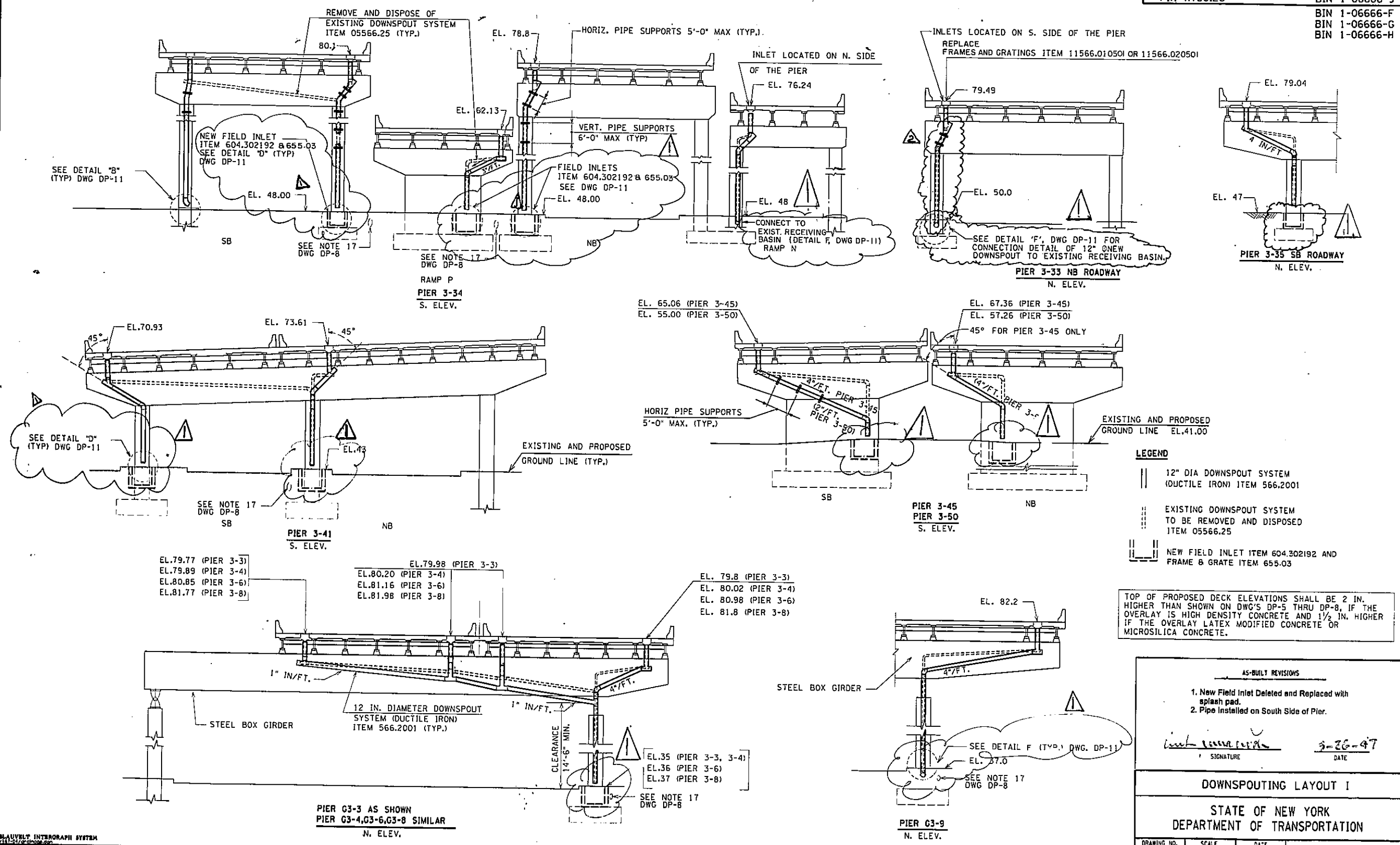
PLAN

AS - BUILT REVISIONS			
1. Security Wall 2. Security Wall Gate			
 SIGNATURE		3-26-97 DATE	
DRAINAGE PLAN IV			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
DRAWING NO. DP-4	SCALE 1" = 40'-0"	DATE 12-29-92	REGION 11

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		127R	199
1-278 BRUCKNER EXPRESSWAY AND RAMPS				
REHABILITATION AT SHERIDAN INTERCHANGE				
PIN X730.28				BIN 1-06666-9

BIN 1-06666-F
BIN 1-06666-G
BIN 1-06666-H

DATE
CHECKED BY
PC
K.S.
ESTIMATED BY
IS
SV
CHECKED BY
K.S.
DESIGNED BY
R.L.A.



TOP OF PROPOSED DECK ELEVATIONS SHALL BE 2 IN. HIGHER THAN SHOWN ON DWG'S DP-5 THRU DP-8, IF THE OVERLAY IS HIGH DENSITY CONCRETE AND 1 1/2 IN. HIGHER IF THE OVERLAY LATEX MODIFIED CONCRETE OR MICROSILICA CONCRETE.

AS-BUILT REVISIONS			
1. New Field Inlet Deleted and Replaced with splash pad. 2. Pipe Installed on South Side of Pier.			
<i>[Signature]</i> SIGNATURE		3-26-97 DATE	
DOWNSPOUTING LAYOUT I			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
DRAWING NO. DP-5	SCALE 1"=10'	DATE 12-29-92	REGION 11

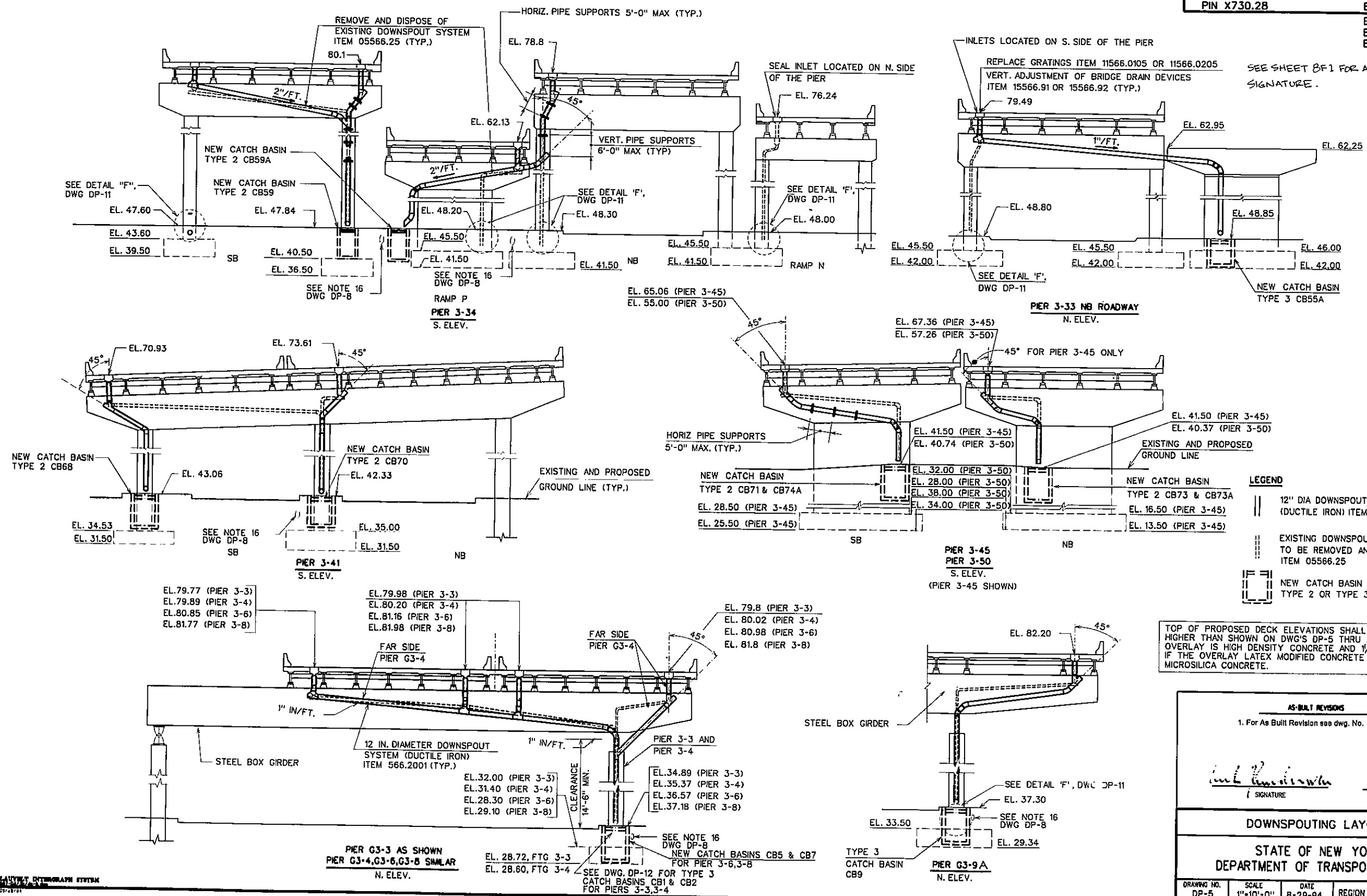
DATE 7-13-94
 CHECKED BY DK
 DESIGNED BY RLA
 IN CHARGE OF

D254615

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		127	128
I-278 BRUCKNER EXPRESSWAY AND RAMP				
REHABILITATION AT SHERIDAN INTERCHANGE				
PIN X730.28			BIN 1-06666-9	

BIN 1-06666-F
 BIN 1-06666-G
 BIN 1-06666-H

SEE SHEET BF1 FOR APPROVAL
 SIGNATURE



LEGEND

- 12" DIA DOWNSPOUT SYSTEM (DUCTILE IRON) ITEM 566.2001
- EXISTING DOWNSPOUT SYSTEM TO BE REMOVED AND DISPOSED ITEM 05566.25
- NEW CATCH BASIN TYPE 2 OR TYPE 3

TOP OF PROPOSED DECK ELEVATIONS SHALL BE 2 IN. HIGHER THAN SHOWN ON DWG'S DP-5 THRU DP-8, IF THE OVERLAY IS HIGH DENSITY CONCRETE AND 1/2 IN. HIGHER IF THE OVERLAY LATEX MODIFIED CONCRETE OR MICROSILICA CONCRETE.

AS-BUILT REVISIONS

1. For As Built Revision see dwg. No. 127R1

Signature 3-26-97
 SIGNATURE DATE

DOWNSPOUTING LAYOUT I

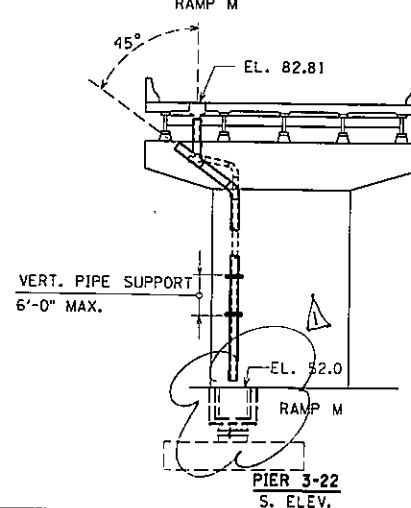
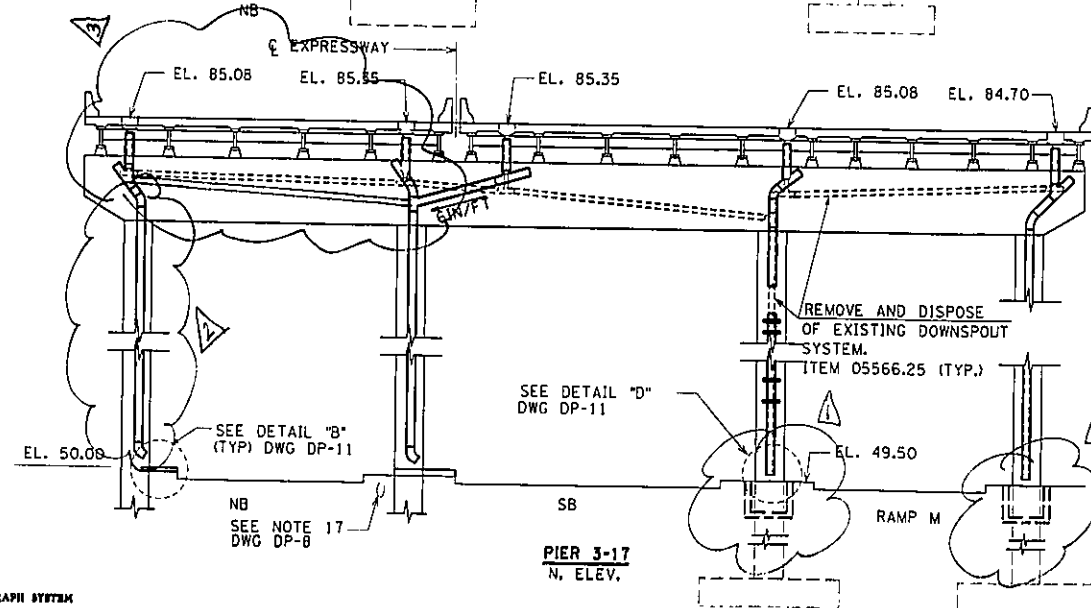
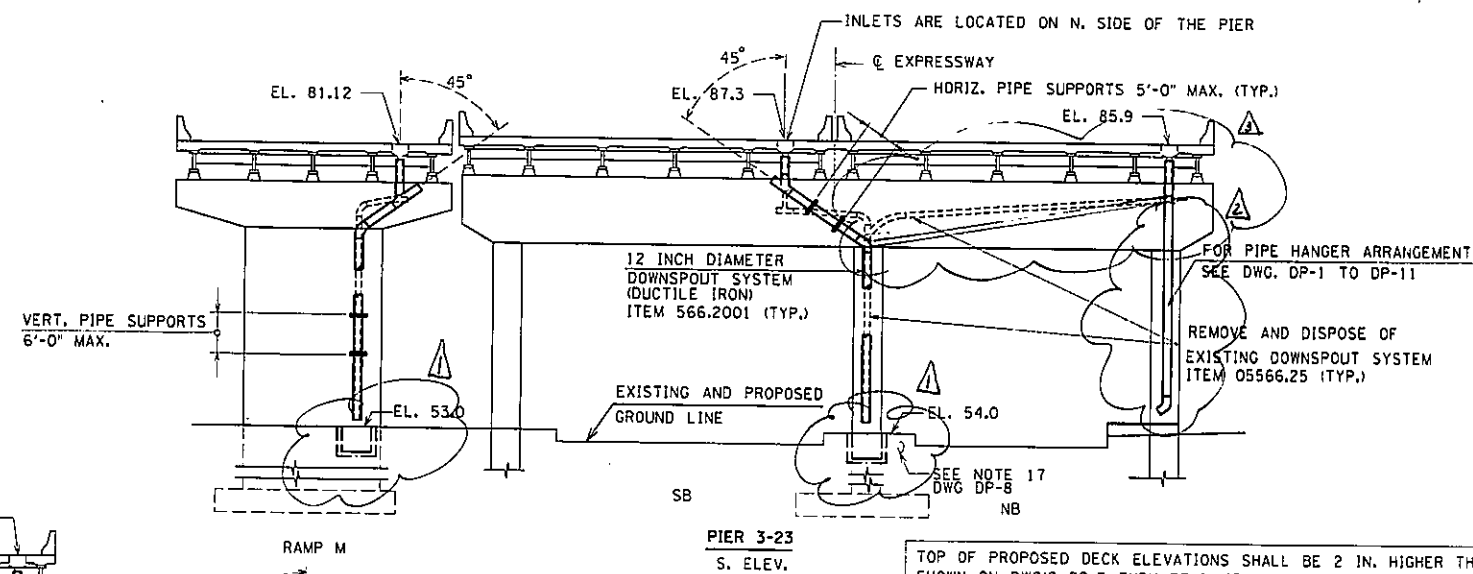
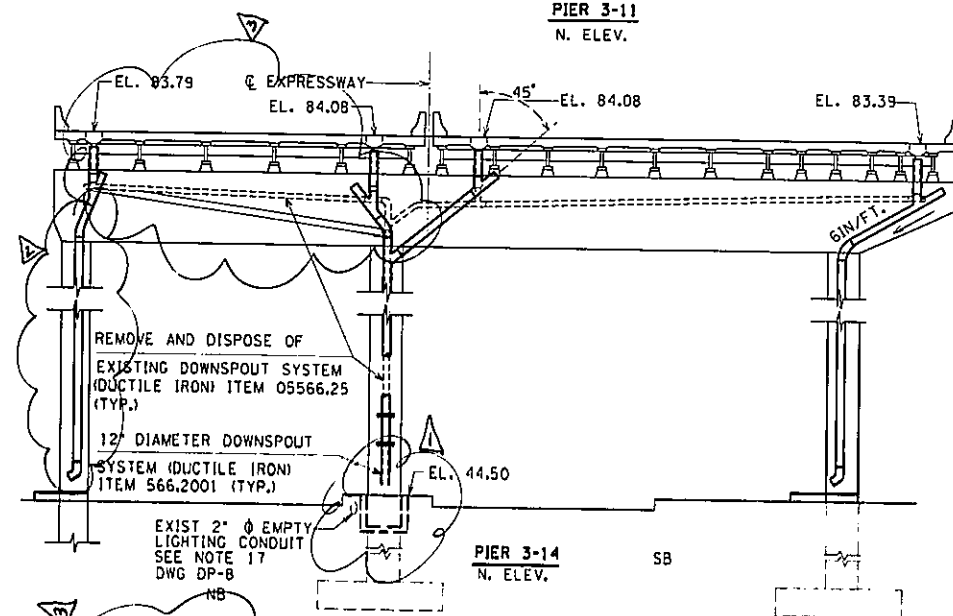
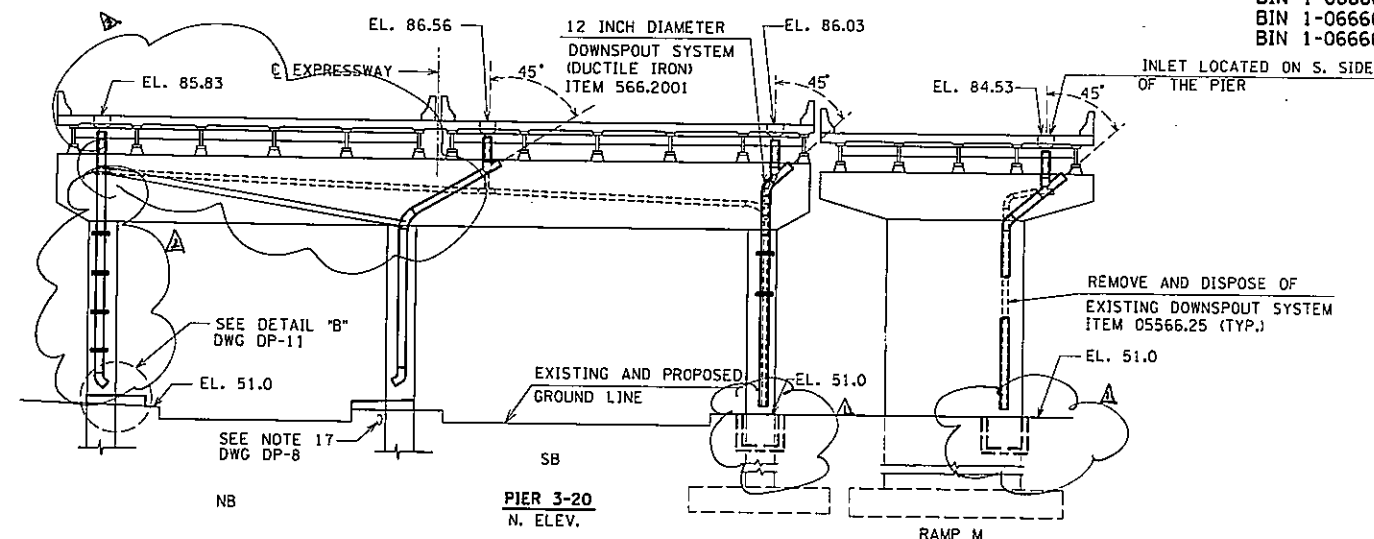
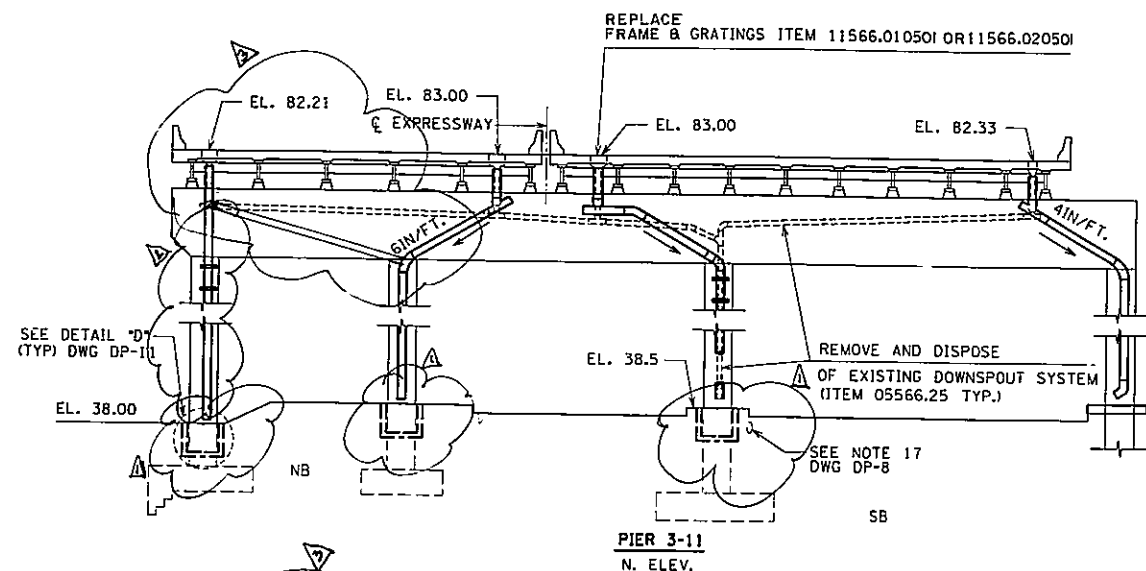
STATE OF NEW YORK
 DEPARTMENT OF TRANSPORTATION

DRAWING NO.	SCALE	DATE	REGION
DP-5	1"=10'-0"	8-29-94	11

D254615

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		128R1	199
I-278 BRUCKNER EXPRESSWAY AND RAMPS				
REHABILITATION AT SHERIDAN INTERCHANGE				
PIN X730.28			BIN 1-06666-9	

BIN 1-06666-F
BIN 1-06666-G
BIN 1-06666-H



TOP OF PROPOSED DECK ELEVATIONS SHALL BE 2 IN. HIGHER THAN SHOWN ON DWG'S DP-5 THRU DP-8, IF THE OVERLAY IS HIGH DENSITY CONCRETE AND 1 1/2 IN. HIGHER IF THE OVERLAY LATEX MODIFIED CONCRETE OR MICROSILICA CONCRETE.

AS-BUILT REVISIONS

1. New Field Inlets Eliminated and Replaced with Splash Pads.
2. Downspout Eliminated
3. Revised Downspout Location

Paul J. Pundarik
SIGNATURE

3-26-97
DATE

DOWNSPOUTING LAYOUT II

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING NO. DP-6 SCALE 1"=10' DATE 12-29-92 REGION 11

IN CHARGE OF: R.L.A. DESIGNED BY: J.S. CHECKED BY: A.P. ESTIMATED BY: A.P. CHECKED BY: A.P. DRAFTED BY: P.C. CHECKED BY: D.K. DATE

MANUFACTURED INTERGRAPH SYSTEM

DATE 7-5-94
CHECKED BY DK
DRAFTED BY EZ
ESTIMATED BY HL
DESIGNED BY JS
IN CHARGE OF RLA

D254615

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		128	199
I-278 BRUCKNER EXPRESSWAY AND RAMPS				
REHABILITATION AT SHERIDAN INTERCHANGE				
PIN X730.28			BIN 1-06666-9	

BIN 1-06666-F
BIN 1-06666-G
BIN 1-06666-H

SEE SHEET BF1 FOR
APPROVAL SIGNATURE.

TOP OF PROPOSED DECK ELEVATIONS SHALL BE 2 IN. HIGHER THAN SHOWN ON DWG'S DP-5 THRU DP-8, IF THE OVERLAY IS HIGH DENSITY CONCRETE AND 1 1/2 IN. HIGHER IF THE OVERLAY IS LATEX MODIFIED CONCRETE OR MICROSILICA CONCRETE.

AS-BUILT REVISIONS

1. For As Built Revision see dwg. No. 128R1

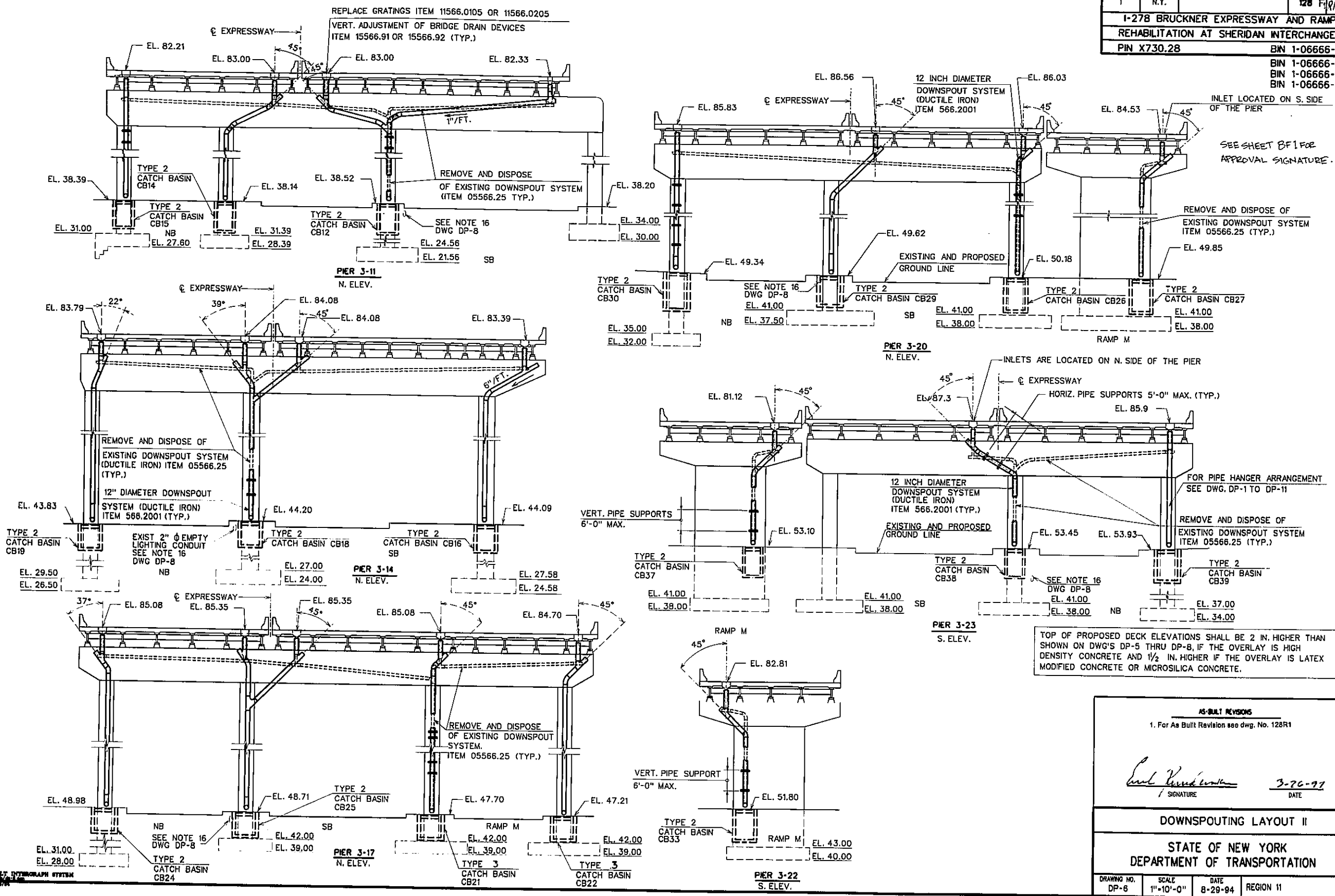
Paul V. ...
SIGNATURE

3-26-97
DATE

DOWNSPOUTING LAYOUT II

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

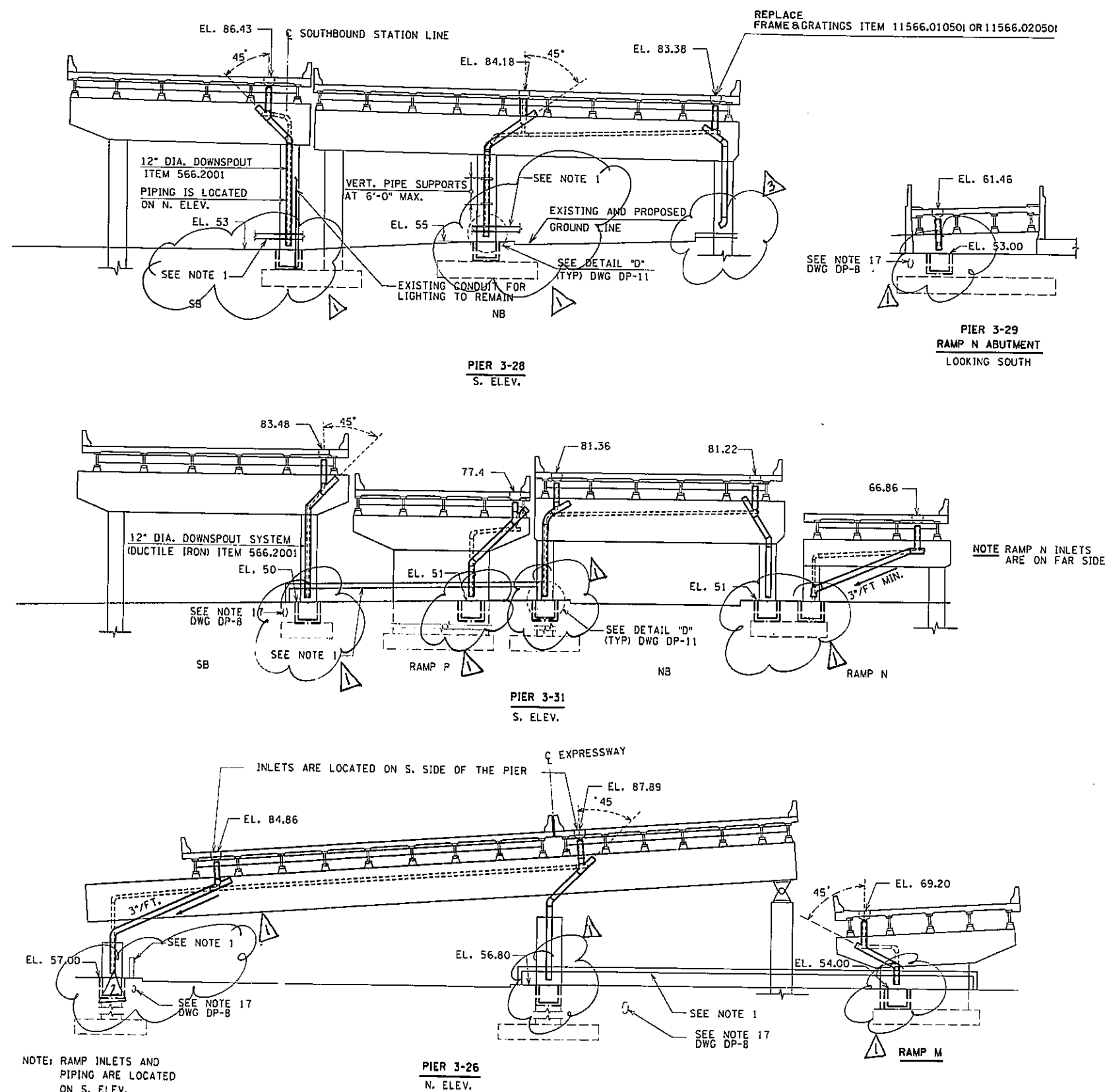
DRAWING NO. DP-6	SCALE 1"=10'-0"	DATE 8-29-94	REGION 11
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D254615

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		129R1	199
I-278 BRUCKNER EXPRESSWAY AND RAMPS				
REHABILITATION AT SHERIDAN INTERCHANGE				
PIN X730.28			BIN 1-06666-9	

BIN 1-06666-F
BIN 1-06666-G
BIN 1-06666-H



NOTES

1. REMOVE & RESET CORRUGATED BEAM GUIDE RAILING UNDER ITEM 606.50.

TOP OF PROPOSED DECK ELEVATIONS SHALL BE 2 IN. HIGHER THAN SHOWN ON DWG'S DP-5 THRU DP-8, IF THE OVERLAY IS HIGH DENSITY CONCRETE AND 1 1/2 IN. HIGHER IF THE OVERLAY LATEX MODIFIED CONCRETE OR MICROSILICA CONCRETE.

AS-BUILT REVISIONS

1. New Field Inlets Eliminated and Replaced with Splash Pads.
2. 45 Degree End Piece Eliminated
3. Splash Pads Installed

Eric R. Rinderson
SIGNATURE

3-26-97
DATE

DOWNSPOUTING LAYOUT III

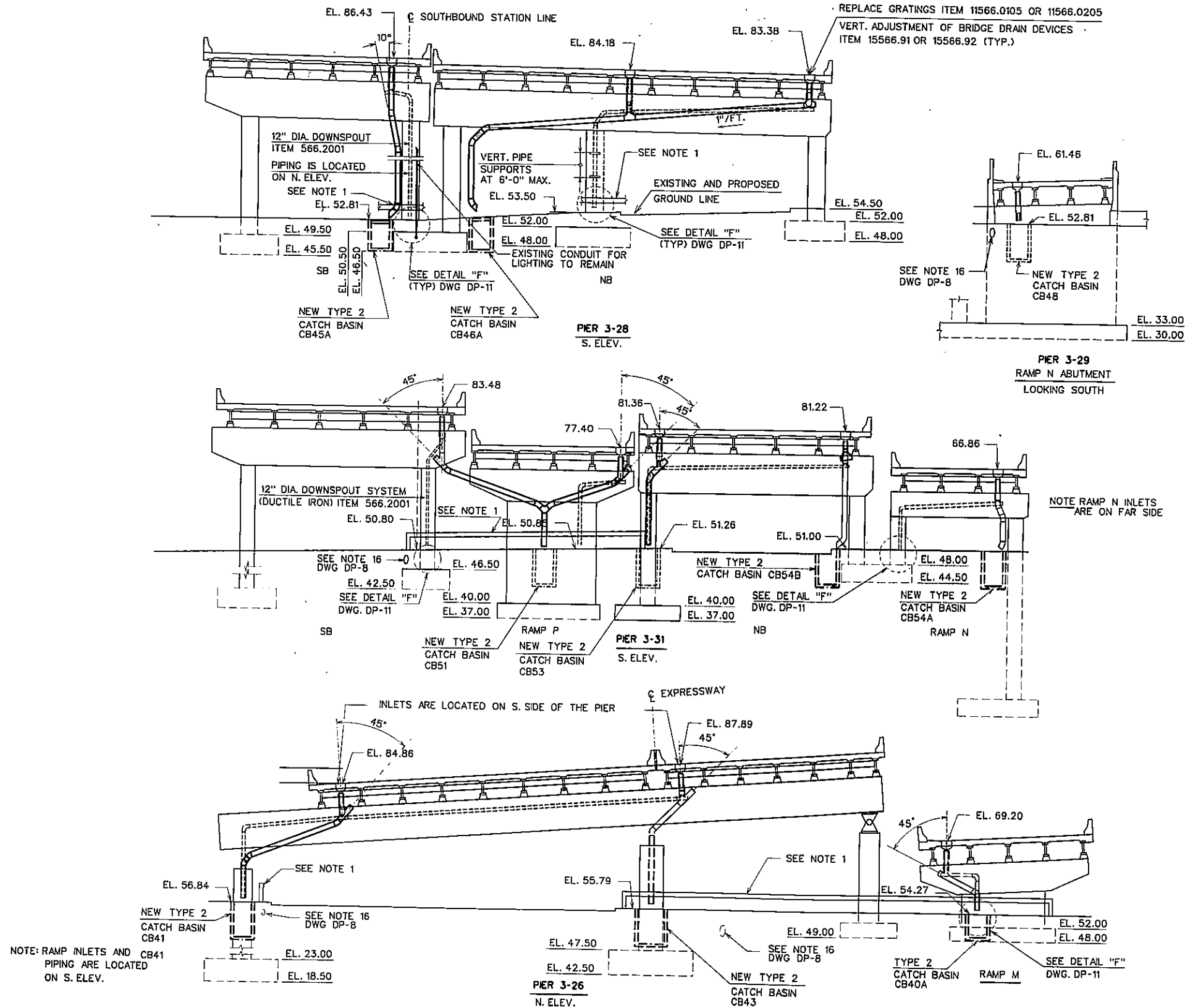
STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING NO. OP-7 SCALE 1"=10' DATE 12-29-92 REGION 11

DATE
CHECKED BY
PC
DRAFTED BY
AP
ESTIMATED BY
AP
CHECKED BY
J.S.
DESIGNED BY
R.L.A.
IN CHARGE OF

HAUTVELT INTERGRAPH SYSTEM

DATE 7-5-94
 CHECKED BY DK
 DESIGNED BY J.S.
 IN CHARGE OF RLA



0254615

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		129 F/ 199	

**I-278 BRUCKNER EXPRESSWAY AND RAMPS
 REHABILITATION AT SHERIDAN INTERCHANGE**

PIN X730.28	BIN 1-06666-9
	BIN 1-06666-F
	BIN 1-06666-G
	BIN 1-06666-H

SEE SHEET BF 1 FOR APPROVAL
 SIGNATURE.

NOTES

1. REMOVE & RESET CORRUGATED BEAM GUIDE RAILING UNDER ITEM 606.50.

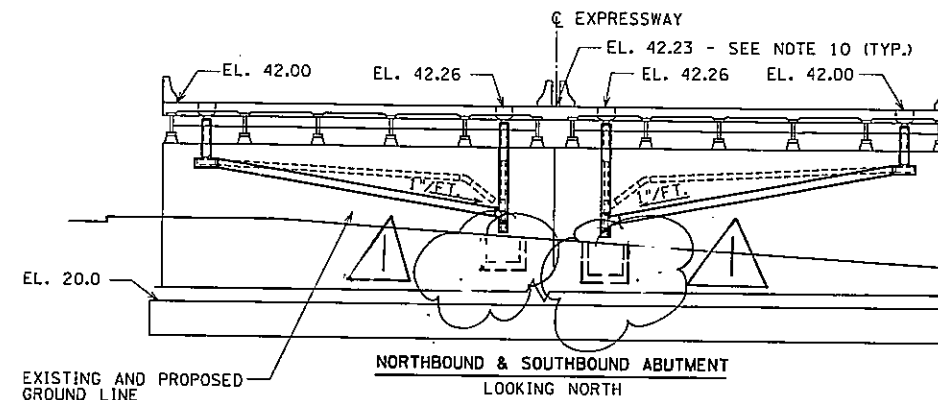
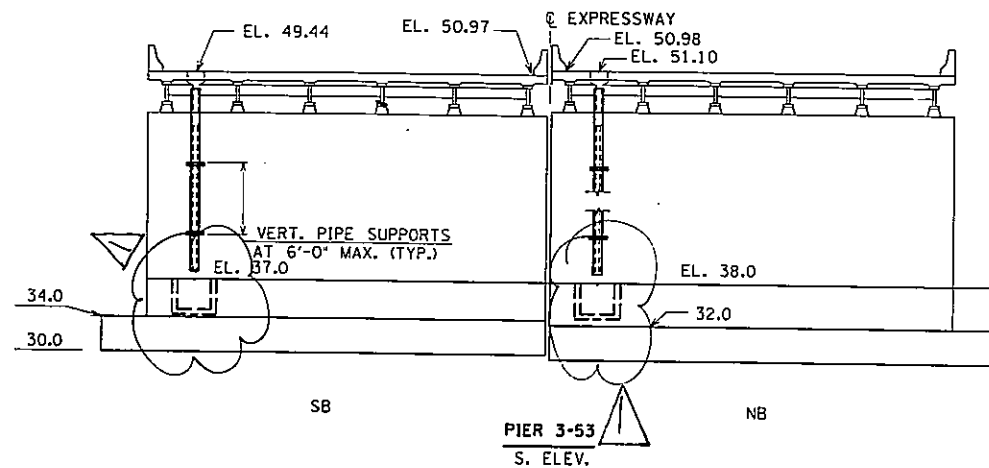
TOP OF PROPOSED DECK ELEVATIONS SHALL BE 2 IN. HIGHER THAN SHOWN ON DWG'S DP-5 THRU DP-8, IF THE OVERLAY IS HIGH DENSITY CONCRETE AND 1 1/2 IN. HIGHER IF THE OVERLAY LATEX MODIFIED CONCRETE OR MICROSILICA CONCRETE.

AS-BUILT REVISIONS	
1. For As Built Revision see dwg. No. 129R1	
<i>Carl Kunder</i> SIGNATURE	3-27-97 DATE
DOWNSPOUTING LAYOUT III	
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION	
DRAWING NO. DP-7	SCALE 1"=10'-0"
DATE 8-29-94	REGION 11

D254515

FED. ROAD REL. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		130R	199
I-278 BRUCKNER EXPRESSWAY AND RAMPS				
REHABILITATION AT SHERIDAN INTERCHANGE				
PIN X730.28			BIN 1-06666-9	

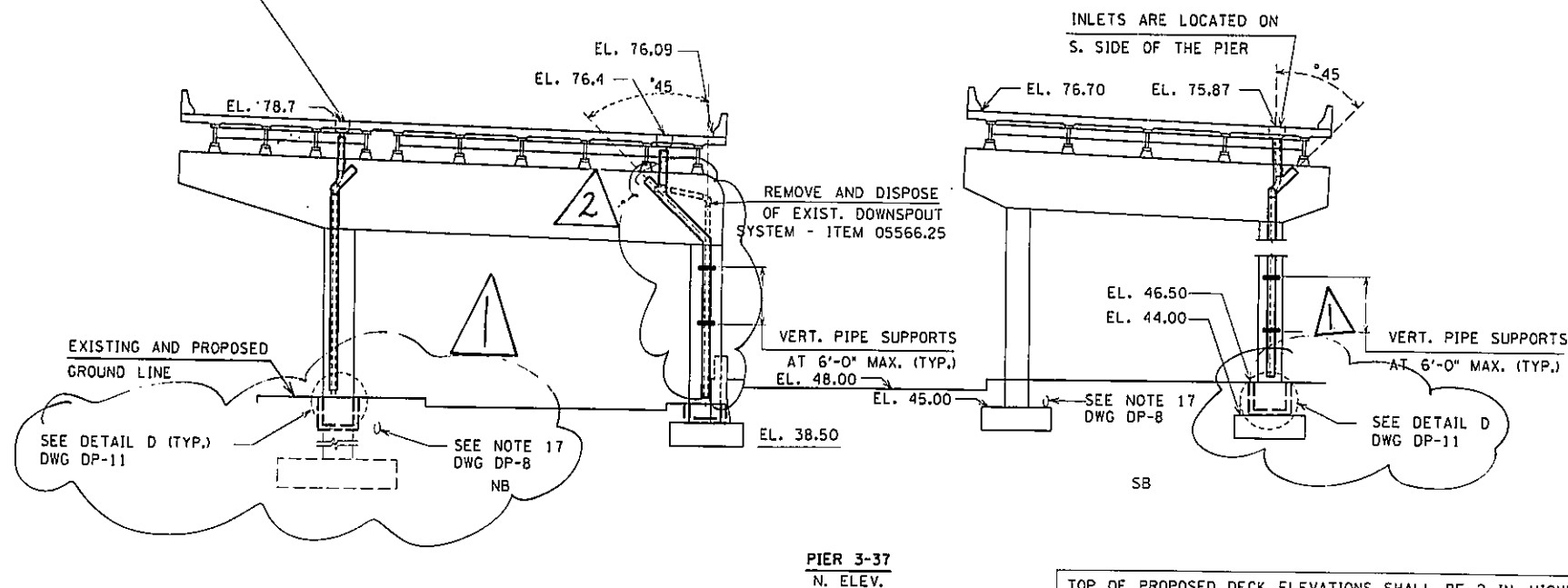
BIN 1-06666-F
BIN 1-06666-G
BIN 1-06666-H



DOWNSPOUTING LAYOUT NOTES

- FOR DRAINAGE PLANS SEE DWG. NOS. DP-1 TO DP-4.
- PROVIDE VERTICAL PIPE SUPPORTS AT 6'-0" MAX. SPACING. PROVIDE HORIZONTAL PIPE SUPPORTS AT 5'-0" MAX. SPACING, UNLESS OTHERWISE NOTED. FOR SUPPORT DETAILS SEE DWG. NO. DP-9.
- FOR DETAILS B, D, E, AND F SEE DWG. NO. DP-11
- FOR DETAILS A SEE DWG. NO. DP-9
- FOR DETAILS C SEE DWG. NO. DP-11
- WHERE STRUCTURAL STEEL BETWEEN STRINGERS IS PROVIDED TO SUPPORT DOWNSPOUT SYSTEM, THE COST IS TO BE INCLUDED IN THE COST OF DOWNSPOUT SYSTEM (DUCTILE IRON) ITEM 566.2001.
- FOR PURPOSES OF CLARITY, ELECTRICAL LINES ARE NOT SHOWN.
- FOR LEGEND, SEE DWG. NO. DP-5
- PIER CAPS AND COLUMNS ARE REINFORCED CONCRETE, UNLESS OTHERWISE NOTED.
- THE TOP OF DECK ELEVATIONS INDICATED ON THIS DWG. REPRESENT TOP OF EXISTING DECK ELEVATIONS AT CENTER LINE OF THE PIER OR ABUTMENT AND ARE COMPUTED ACCORDING TO THE "AS BUILT" LONGITUDINAL PROFILES AND CROSS-SLOPES. ALL VERTICAL ELEVATION SHALL BE CHECKED IN THE FIELD.
- GRADE ELEVATIONS SHOWN ON THIS DWG. REPRESENT EXISTING GRADE ELEVATIONS AT CENTER LINE OF THE PIER OR ABUTMENT ACCORDING TO "AS BUILT" SURFACE AND SUBSURFACE PLANS AND SHALL BE CHECKED IN THE FIELD.
- 1 1/2 FT. PIPE SLOPE IS A MINIMUM.
- A VERTICAL CLEARANCE OF NOT LESS THAN 14.5 FT. SHALL BE PROVIDED AT TRAFFIC AREAS.
- THE CONTRACTOR HAS THE OPTION OF PROPOSING A DIFFERENT COMBINATION OF STANDARD FITTINGS TO THE ENGINEER FOR APPROVAL. USE OF 90° ELBOWS IS PROHIBITED.
- FLAT RUNS OF 12" DIAMETER PIPE SHALL BE SUPPORTED BY HANGERS SPACED NOT MORE THAN 5 FT. C.C..
- THE MINIMUM LENGTH OF STRAIGHT SECTION OF PIPE SHALL BE 2 FT..
- EXISTING IN GROUND CONDUIT WIRES & SERVICE BOXES FOR LIGHTING TO BE PROTECTED DURING CONSTRUCTION.

REPLACE
FRAMES AND GRATINGS ITEM 11566.010501 OR 11566.020501



TOP OF PROPOSED DECK ELEVATIONS SHALL BE 2 IN. HIGHER THAN SHOWN ON DWG'S DP-5 THRU DP-8, IF THE OVERLAY IS HIGH DENSITY CONCRETE AND 1 1/2 IN. HIGHER IF THE OVERLAY LATEX MODIFIED CONCRETE OR MICROSILICA CONCRETE.

AS-BUILT REVISIONS

- New Field Inlets Eliminated and Replaced with Splash Pads.
- Downdspout Located on South Side of Pier.

End Rinderson
SIGNATURE

3-27-97
DATE

DOWNSPOUTING LAYOUT IV

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING NO. DP-8	SCALE 1"=10'	DATE 12-29-92	REGION 11
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IN CHARGE OF: RL-A DESIGNED BY: IS CHECKED BY: VJN ESTIMATED BY: IS CHECKED BY: BM DRAFTED BY: PC CHECKED BY: BM DATE

MANUEL INTERGRAPH SYSTEM

IN CHARGE OF
 ELA
 DESIGNED BY
 JS
 CHECKED BY
 HL
 ESTIMATED BY
 HL
 CHECKED BY
 DK
 DRAFTED BY
 DK
 DATE
 7-5-94

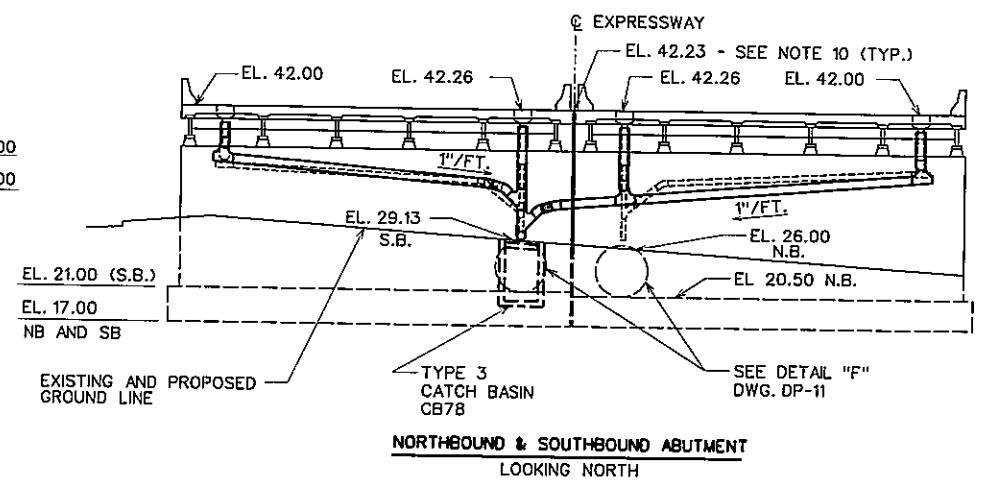
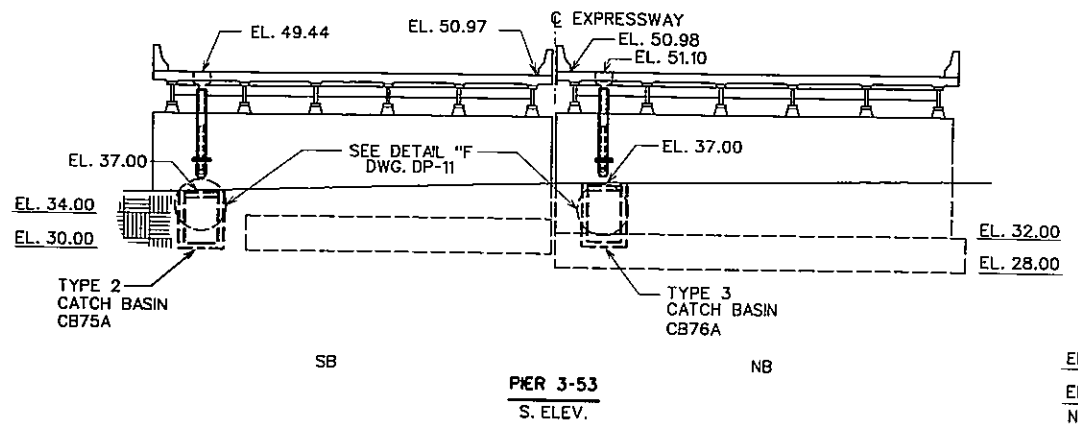
D254615

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		130F181	199
I-278 BRUCKNER EXPRESSWAY AND RAMPS				
REHABILITATION AT SHERIDAN INTERCHANGE				
PIN X730.28			BIN 1-06666-9	

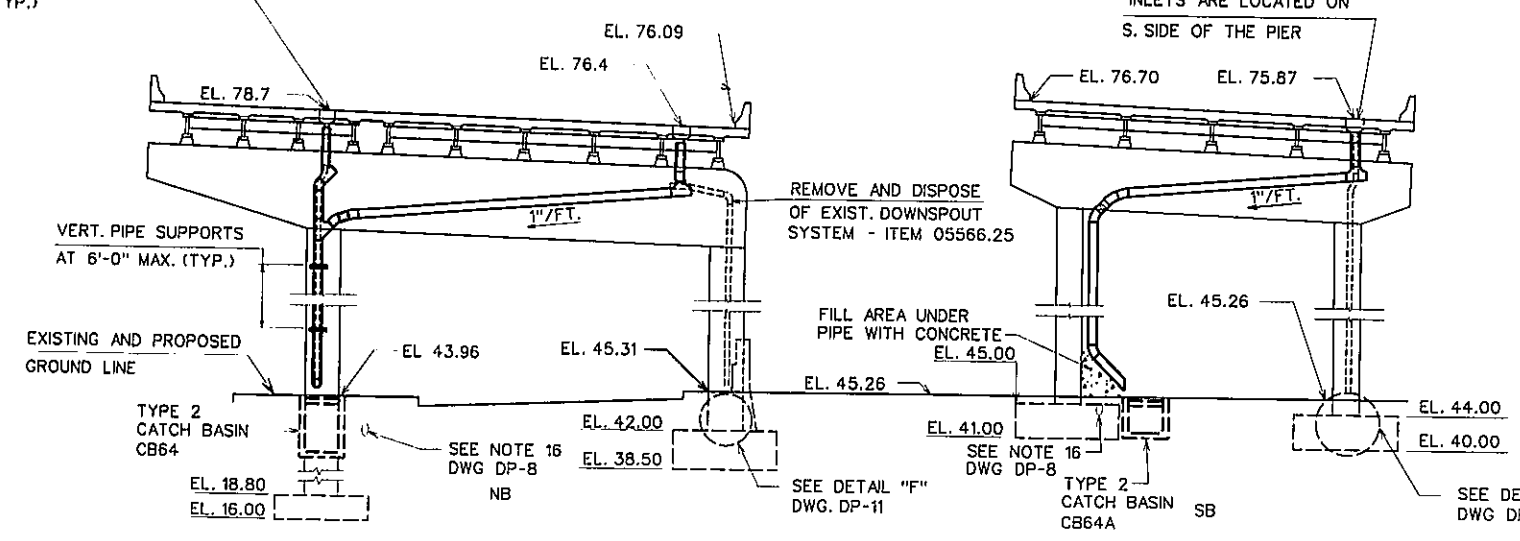
SEE SHEET DP-1 FOR APPROVAL
 SIGNATURE
 BIN 1-06666-F
 BIN 1-06666-G
 BIN 1-06666-H

DOWNSPOUTING LAYOUT NOTES

1. FOR DRAINAGE PLANS SEE DWG. NOS. DP-1 TO DP-4.
2. PROVIDE VERTICAL PIPE SUPPORTS AT 6'-0" MAX. SPACING. PROVIDE HORIZONTAL PIPE SUPPORTS AT 5'-0" MAX. SPACING, UNLESS OTHERWISE NOTED. FOR SUPPORT DETAILS SEE DWG. NO. DP-9.
3. FOR DETAIL F SEE DWG. NO. DP-11
4. FOR DETAILS A SEE DWG. NO. DP-9
5. WHERE STRUCTURAL STEEL BETWEEN STRINGERS IS PROVIDED TO SUPPORT DOWNSPOUT SYSTEM, THE COST IS TO BE INCLUDED IN THE COST OF DOWNSPOUT SYSTEM (DUCTILE IRON) ITEM 566.2001.
6. FOR PURPOSES OF CLARITY, ELECTRICAL LINES ARE NOT SHOWN.
7. FOR LEGEND, SEE DWG. NO. DP-5
8. PIER CAPS AND COLUMNS ARE REINFORCED CONCRETE, UNLESS OTHERWISE NOTED.
9. THE TOP OF DECK ELEVATIONS INDICATED ON THIS DWG. REPRESENT TOP OF EXISTING DECK ELEVATIONS AT CENTER LINE OF THE PIER OR ABUTMENT AND ARE COMPUTED ACCORDING TO THE "AS BUILT" LONGITUDINAL PROFILES AND CROSS-SLOPES. ALL VERTICAL ELEVATION SHALL BE CHECKED IN THE FIELD.
10. GRADE ELEVATIONS SHOWN ON THIS DWG. REPRESENT EXISTING GRADE ELEVATIONS AT CENTER LINE OF THE PIER OR ABUTMENT ACCORDING TO "AS BUILT" SURFACE AND SUBSURFACE PLANS AND SHALL BE CHECKED IN THE FIELD.
11. 1"/FT. PIPE SLOPE IS A MINIMUM.
12. A VERTICAL CLEARANCE OF NOT LESS THAN 14.5 FT. SHALL BE PROVIDED AT TRAFFIC AREAS.
13. THE CONTRACTOR HAS THE OPTION OF PROPOSING A DIFFERENT COMBINATION OF STANDARD FITTINGS TO THE ENGINEER FOR APPROVAL. USE OF 90° ELBOWS IS PROHIBITED.
14. FLAT RUNS OF 12" DIAMETER PIPE SHALL BE SUPPORTED BY HANGERS SPACED NOT MORE THAN 5 FT. C.C..
15. THE MINIMUM LENGTH OF STRAIGHT SECTION OF PIPE SHALL BE 2 FT..
16. EXISTING IN GROUND CONDUIT WIRES & SERVICE BOXES FOR LIGHTING TO BE PROTECTED DURING CONSTRUCTION.



REPLACE GRATINGS ITEM 11566.0105 OR 11566.0205
 VERTICAL ADJUSTMENT OF BRIDGE DRAIN DEVICES
 ITEM 15566.91 OR 15566.92 (TYP.)



PIER 3-37
 N. ELEV.

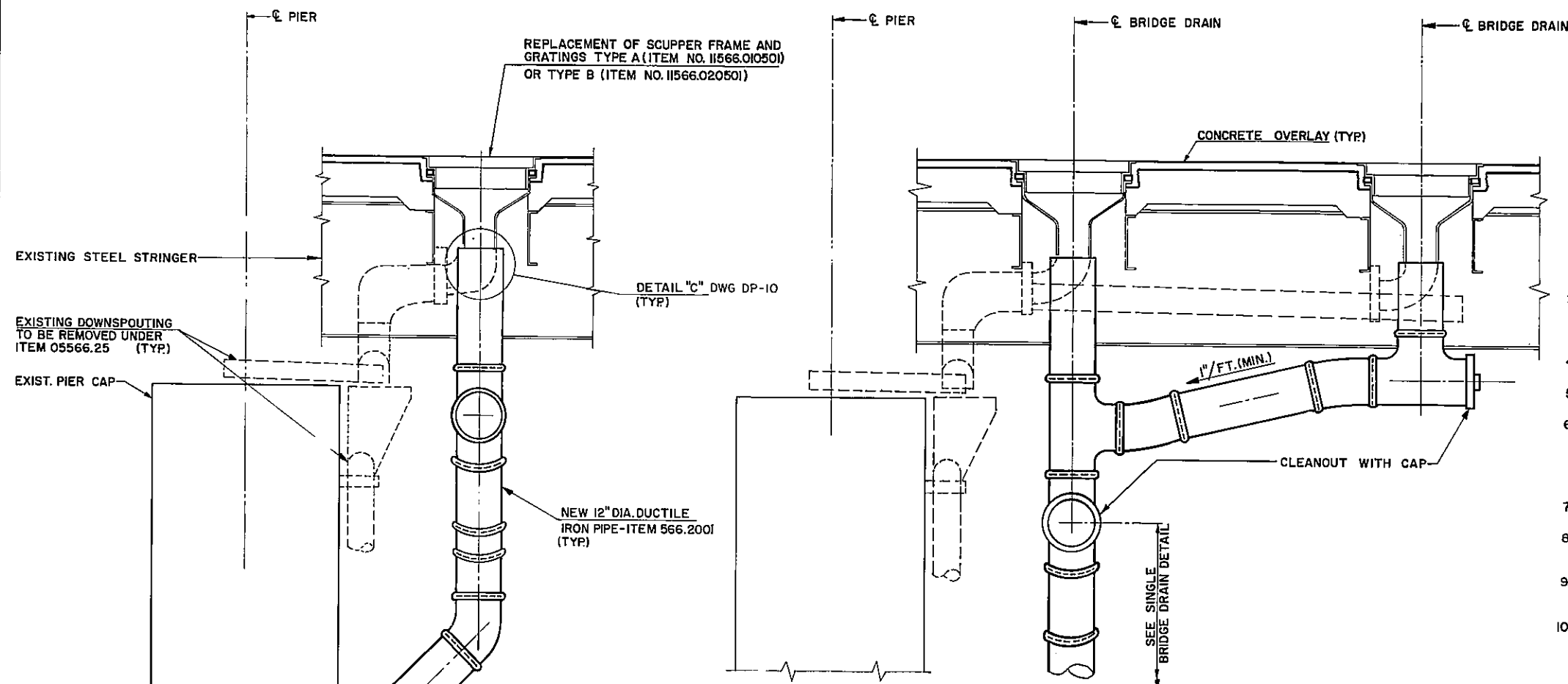
TOP OF PROPOSED DECK ELEVATIONS SHALL BE 2 IN. HIGHER THAN SHOWN ON DWG'S DP-5 THRU DP-8, IF THE OVERLAY IS HIGH DENSITY CONCRETE AND 1/2 IN. HIGHER IF THE OVERLAY LATEX MODIFIED CONCRETE OR MICROSILICA CONCRETE.

AS-BUILT REVISIONS			
1. For As Built Revision see dwg. No. 130R1			
		3-27-97	
SIGNATURE		DATE	
DOWNSPOUTING LAYOUT IV			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
DRAWING NO. DP-8	SCALE 1"=10'-0"	DATE 8-29-94	REGION 11

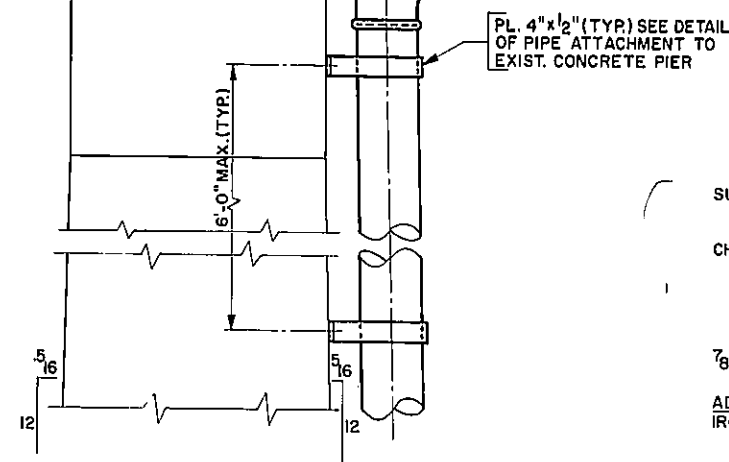
I-278 BRUCKNER EXPRESSWAY AND RAMPS	
REHABILITATION AT SHERIDAN INTERCHANGE	
PIN X730.28	BIN I-06666-9

BIN 1-06666-F
BIN 1-06666-G
BIN 1-06666-H

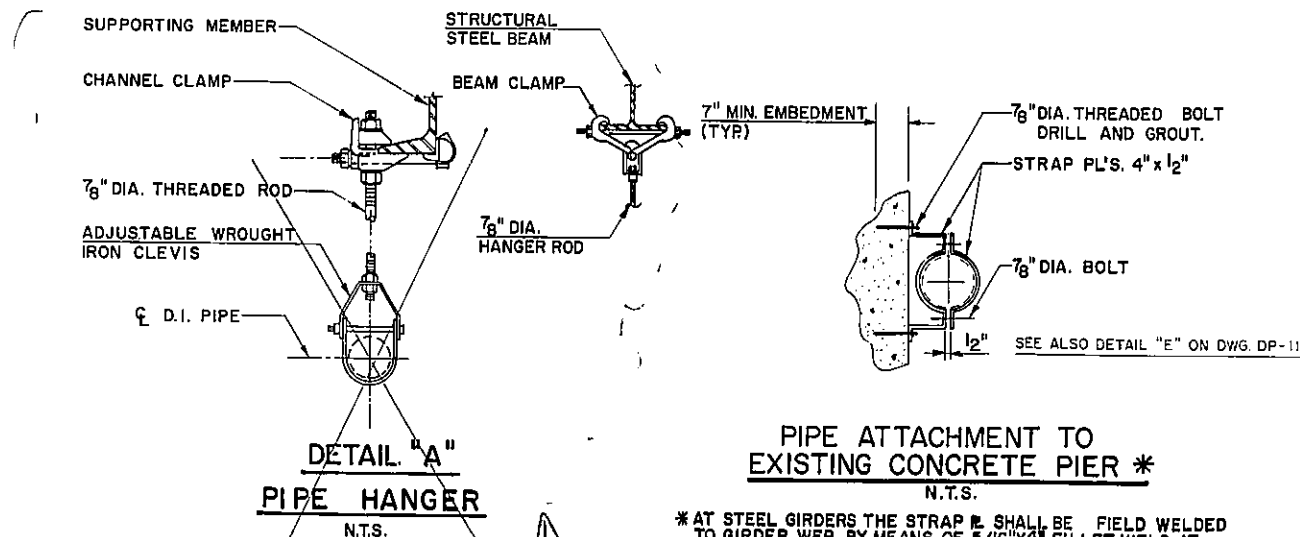
1. REMOVAL AND DISPOSAL OF EXISTING DOWNSPOUTING SYSTEM PAID UNDER PRICE BID FOR ITEM 05566.25 "REMOVE AND DISPOSE OF DOWNSPOUT SYSTEM".
2. INSTALLATION OF NEW DOWNSPOUT SYSTEM PAID FOR UNDER ITEM 566.2001 "DOWNSPOUT SYSTEM (DUCTILE IRON)" INCLUDES ALL REQUIRED SUPPORT MEMBERS.
3. ALL NEW DOWNSPOUTING IS 12" DIA.
4. FOR LAYOUTS OF NEW DOWNSPOUTS, SEE DWG. NOS. DP-5 THRU DP-8.
5. FOR NEW GRATING AND FRAME DETAILS, SEE DWG. NO. DP-12
6. THE DOWNSPOUT LAYOUT AND DETAILS SHOWN ON DWG. NOS. DP-5 THRU DP-11 ARE GENERAL AND INDICATIVE OF THE ARRANGEMENT AND MATERIALS TO BE EMPLOYED FOR DOWNSPOUT PIPING. ACTUAL DETAILS EMPLOYED AT EACH LOCATION WILL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.
7. DUCTILE IRON PIPE SHALL CONFORM TO ASTM A377 (ANSI 21.51) CLASS 56.
8. PAINTING OF NEW DOWNSPOUTING SHALL BE PAID FOR UNDER ITEM 18570.39 SHOP APPLIED STRUCTURAL STEEL PAINT SYSTEM.
9. INSIDE SURFACES OF SCUPPERS TO BE PAINTED WITH TWO COATS OF COAL TAR EPOXY COATING. PAYMENT SHALL BE INCLUDED IN ITEMS 11566.010501 & 11566.020501
10. FOR DETAIL "C" SEE DWG. NO. DP-10.



TYPICAL DOWNSPOUTING
(DOUBLE BRIDGE DRAINS)
SCALE: 3/4" = 1'-0"



TYPICAL DOWNSPOUTING
(SINGLE BRIDGE DRAINS)
SCALE: $\frac{3}{4}" = 1'-0"$



PIPE ATTACHMENT TO
EXISTING CONCRETE PIER *

* AT STEEL GIRDERS THE STRAP SHALL BE FIELD WELDED TO GIRDER WEB BY MEANS OF 5/16"x4" FILLET WELD AT EACH END OF STRAP

AS - BUILT REVISIONS

1. Detail "A" Revised As Per No. 132R1

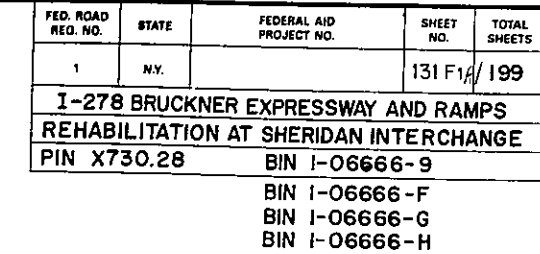
Art Kunderian
SIGNATURE

3-27-97
DATE

DOWNSPOUTING DETAILS I

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING NO. DP - 9	SCALE AS SHOWN	DATE 12-29-92	REGION
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NOTES:

1. REMOVAL AND DISPOSAL OF EXISTING DOWNSPOUTING SYSTEM PAID UNDER PRICE BID FOR ITEM 05566.25 "REMOVE AND DISPOSE OF DOWNSPOUT SYSTEM".
2. INSTALLATION OF NEW DOWNSPOUT SYSTEM PAID FOR UNDER ITEM 566.2001 "DOWNSPOUT SYSTEM (DUCTILE IRON)" INCLUDES ALL REQUIRED SUPPORT MEMBERS.
3. ALL NEW DOWNSPOUTING IS 12" DIA.
4. FOR LAYOUTS OF NEW DOWNSPOUTS, SEE DWG. NOS. DP-5 THRU DP-8.
5. FOR NEW GRATING AND FRAME DETAILS, SEE DWG. NO. DP-12
6. THE DOWNSPOUT LAYOUT AND DETAILS SHOWN ON DWG. NOS. DP-5 THRU DP-11 ARE GENERAL AND INDICATIVE OF THE ARRANGEMENT AND MATERIALS TO BE EMPLOYED FOR DOWNSPOUT PIPING. ACTUAL DETAILS EMPLOYED AT EACH LOCATION WILL BE SUBJECT TO THE APPROVAL OF THE ENGINEER.
7. DUCTILE IRON PIPE SHALL CONFORM TO ASTM A377 (ANSI 21.51) CLASS 56.
8. PAINTING OF NEW DOWNSPOUTING SHALL BE PAID FOR UNDER ITEM 18570.39 SHOP APPLIED STRUCTURAL STEEL PAINT SYSTEM.
9. INSIDE SURFACES OF SCUPPERS TO BE PAINTED WITH TWO COATS OF COAL TAR EPOXY COATING. PAYMENT SHALL BE INCLUDED IN ITEMS 11566.0050 & 11566.020501
10. FOR DETAIL "C" SEE DWG. NO. DP-10.

TYPICAL DOWNSPOUTING
(DOUBLE BRIDGE DRAINS)
SCALE: $\frac{3}{4}" = 1'-0"$

ALTERNATIVE ARRANGEMENT
OF DOWNSPOUTING
SCALE: 1/2" = 1'-0"

TYPICAL DOWNSPOUTING
(SINGLE BRIDGE DRAINS)
SCALE: $\frac{3}{4}" = 1'-0"$

DETAIL. "A"
PIPE HANGER
N.T.S.

PIPE ATTACHMENT TO
EXISTING CONCRETE PIER *
N.T.S.

* AT STEEL GIRDERS THE STRAP R SHALL BE FIELD WELDED TO GIRDER WEB BY MEANS OF 5/16"x4" FILLET WELD AT EACH END OF STRAP.

AS - BUILT REVISIONS

1. Downspout System Installed As Per Detail on Dwg. Sheet No.131R1

Eric P. Rosen
SIGNATURE

3-27-57
DATE

DOWNSPOUTING DETAILS I

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

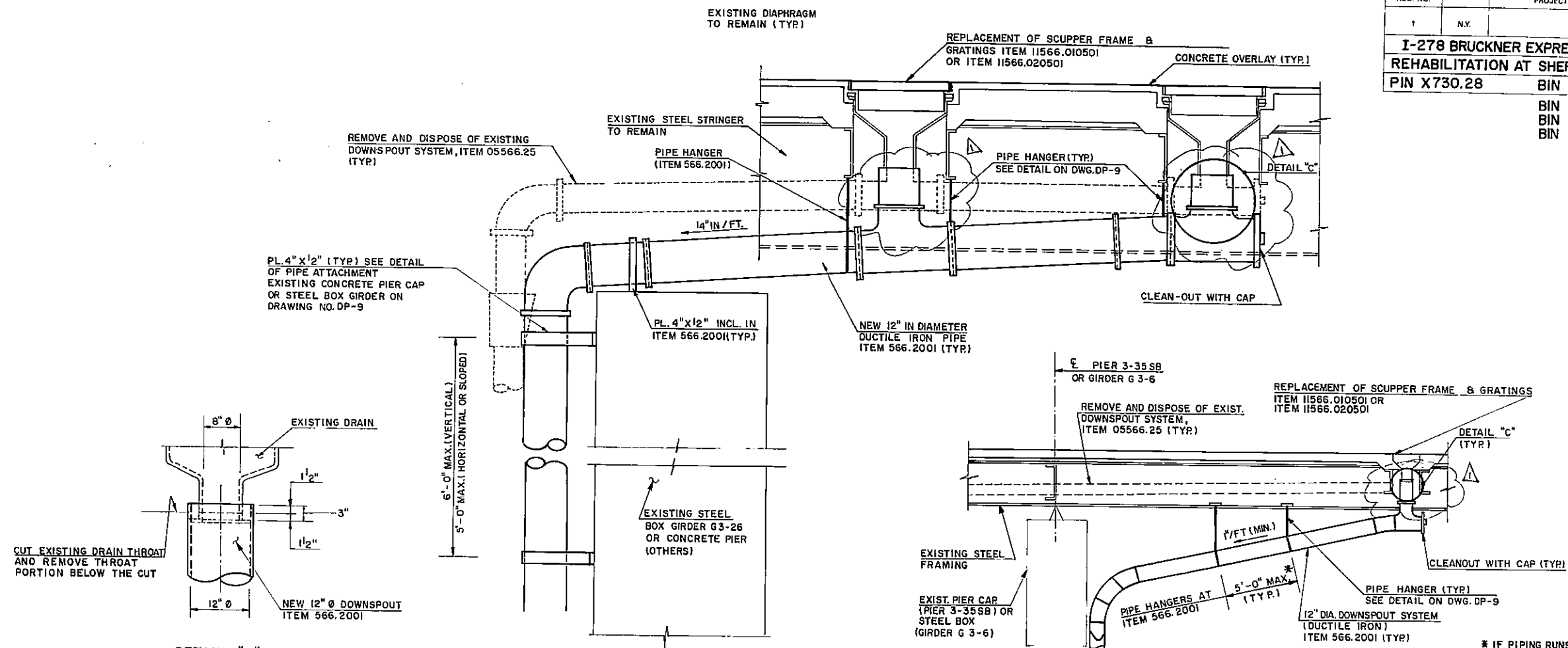
DRAWING NO. DP - 9	SCALE AS SHOWN	DATE 6-29-1994	REGION 11
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D254015

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		132R1199	

**I-278 BRUCKNER EXPRESSWAY AND RAMPS
REHABILITATION AT SHERIDAN INTERCHANGE**
PIN X730.28 BIN I-06666-9

BIN I-06666-F
BIN I-06666-G
BIN I-06666-H



DETAIL "C"
NOT TO SCALE

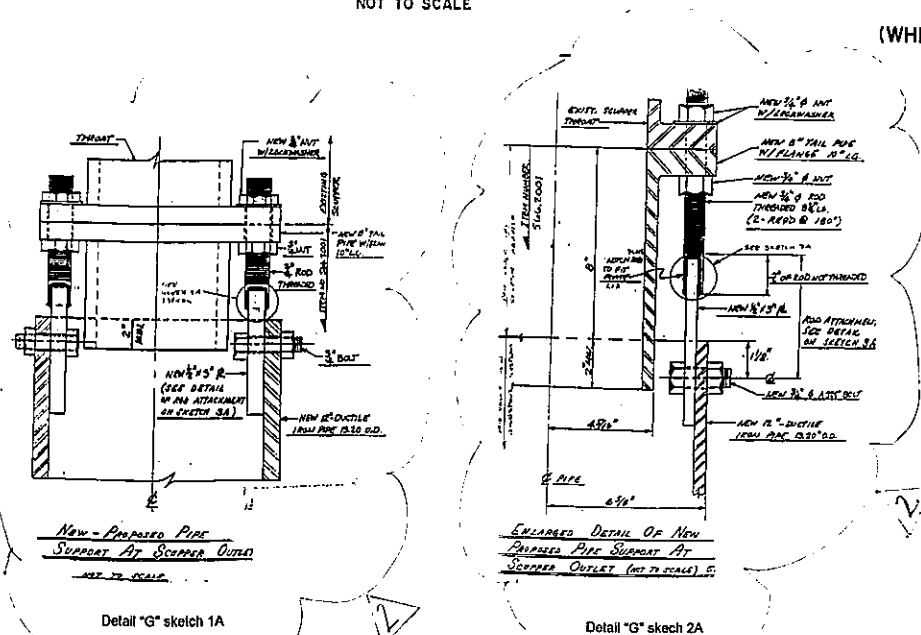
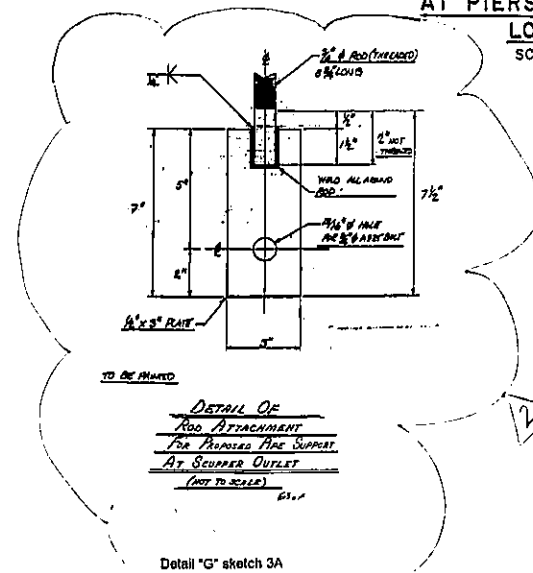
DOWNSPOUTING DETAIL
(WHERE PIPING CROSSES TOP OF PIER CAP)
SCALE: 3/4" = 1'-0"

PIER 3-23 SB
3-26 NB
3-28 SB AS SHOWN
3-33 SB
3-37 SB

PIER 3-20 RAMP M
3-26 SB
3-31 RAMP N
3-34 RAMP N

SIMILAR BUT WITH ONLY ONE DRAIN (CLOSEST TO THE PIER CAP)

DOWNSPOUTING DETAIL-LONGITUDINAL SECTION
AT PIERS G3-6 AND 3-35 SB
LOOKING WEST
SCALE: 1/4" = 1'-0"



AS - BUILT REVISIONS

- Detail "G" New Scupper Attachment
- Added Detail For Pipe Support of Scupper Outlet

Carl Kunkin 3-28-97
SIGNATURE DATE

DOWNSPOUTING DETAILS II

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING NO.	SCALE	DATE	REGION
DP-10	AS SHOWN	12-29-92	11

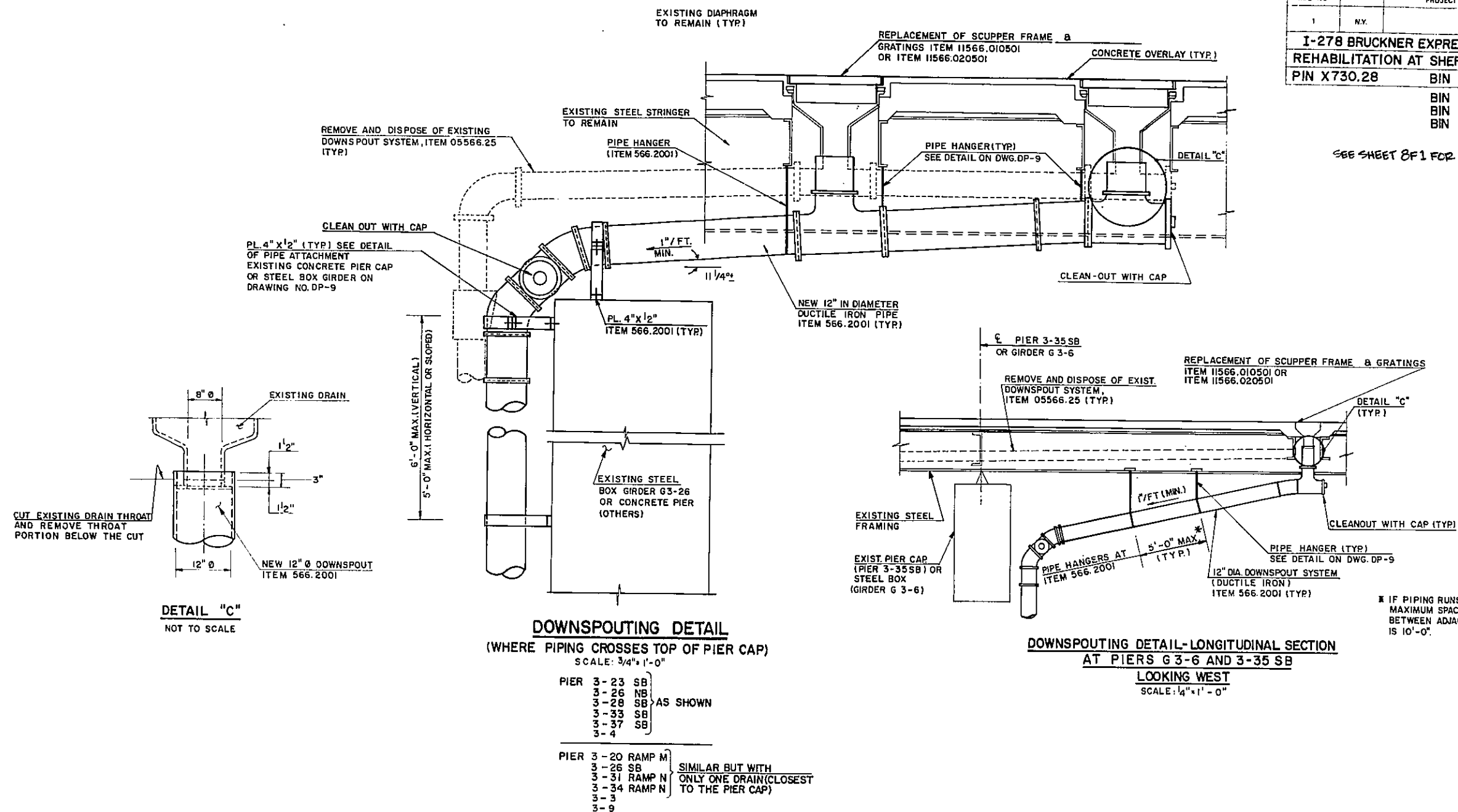
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FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		132F10/99	

**I-278 BRUCKNER EXPRESSWAY AND RAMPS
REHABILITATION AT SHERIDAN INTERCHANGE**
PIN X730.28 BIN I-06666-9

BIN I-06666-F
BIN I-06666-G
BIN I-06666-H

SEE SHEET 8F1 FOR APPROVAL SIGNATURE.



AS - BUILT REVISIONS

1. Downspout System Installed As Per Detail on Sheet No. 132R1

Eric Rinderson
SIGNATURE

3-28-97
DATE

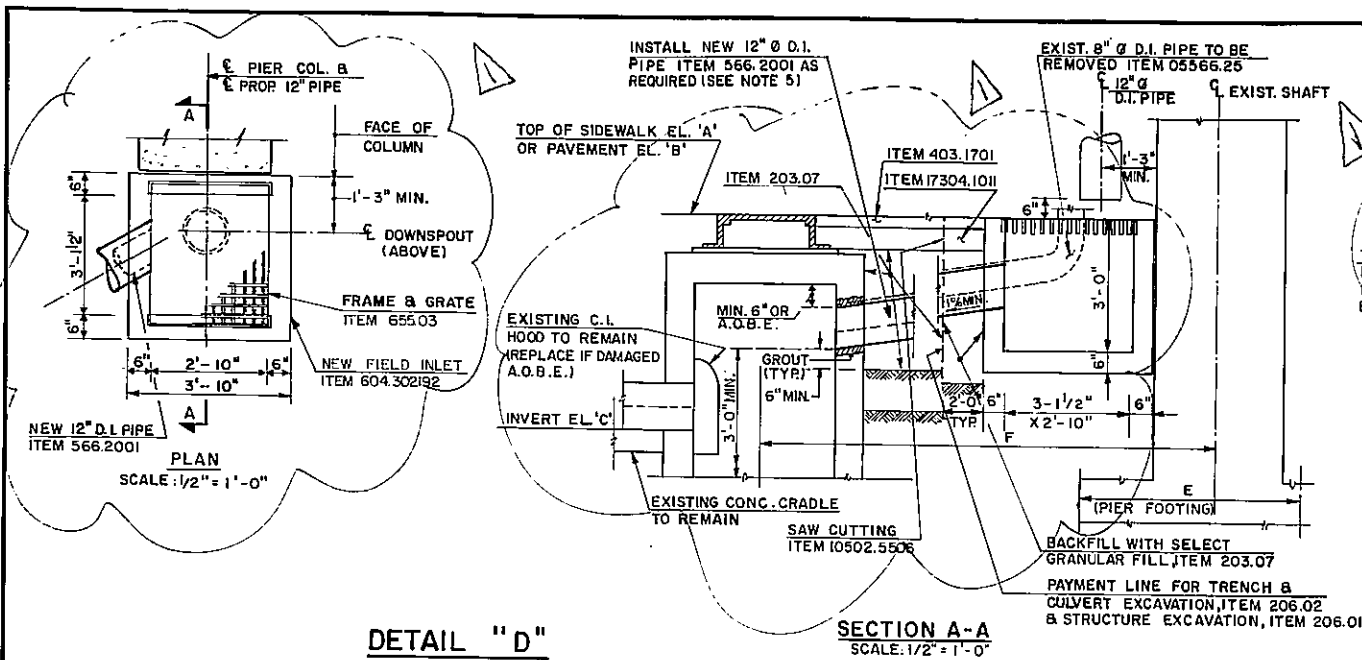
DOWNSPOUTING DETAILS II

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

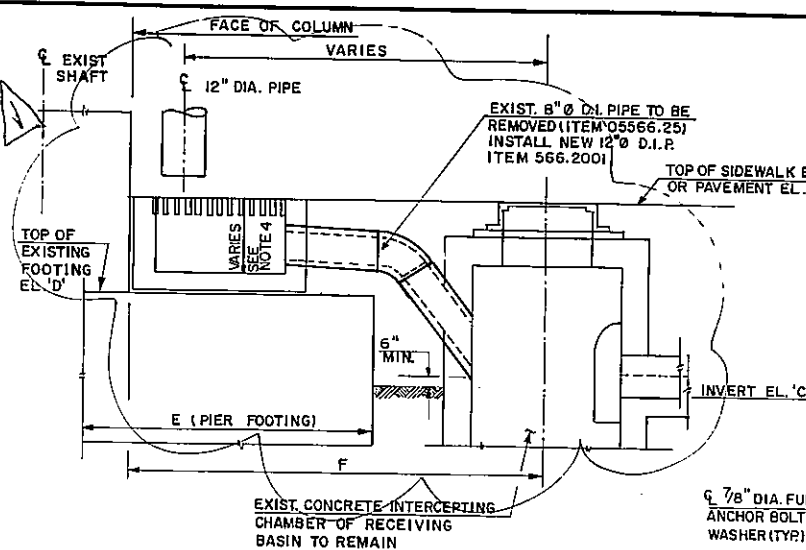
DRAWING NO. DP-10 SCALE AS SHOWN DATE 8-29-99 REGION 11

I-278 BRUCKNER EXPRESSWAY AND RAMPS	
REHABILITATION AT SHERIDAN INTERCHANGE	
PIN X730.28	BIN I-06666 - 9

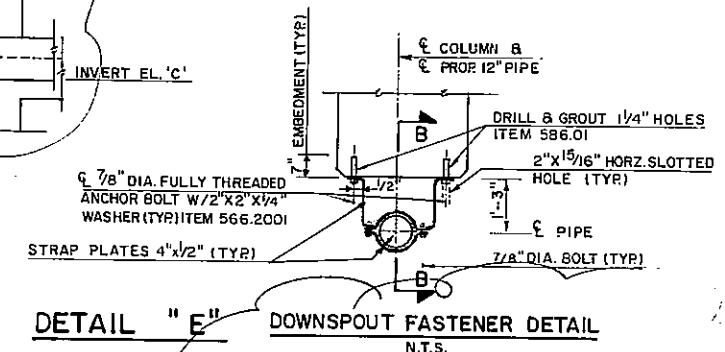
BIN 1-06666 - F
BIN 1-06666 - G
BIN 1-06666 - H



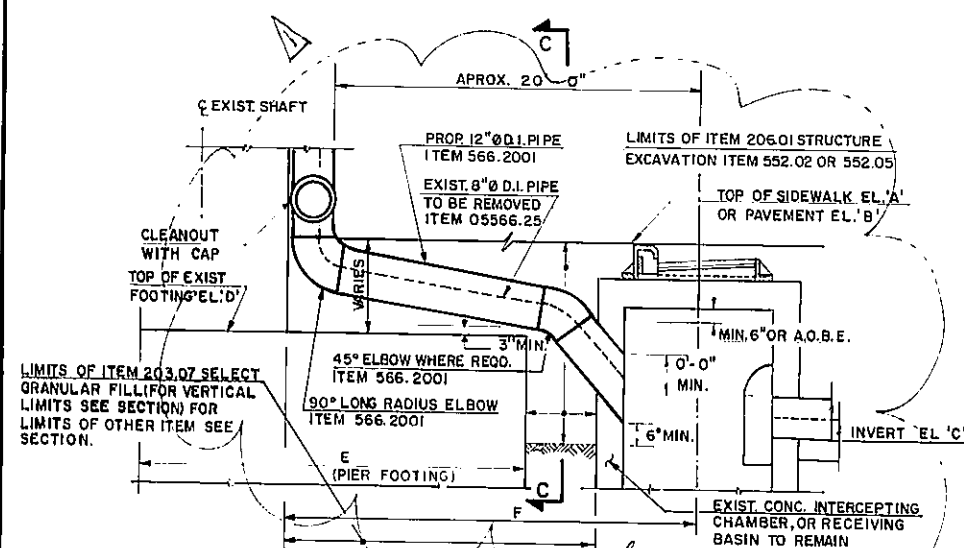
DETAIL "D"



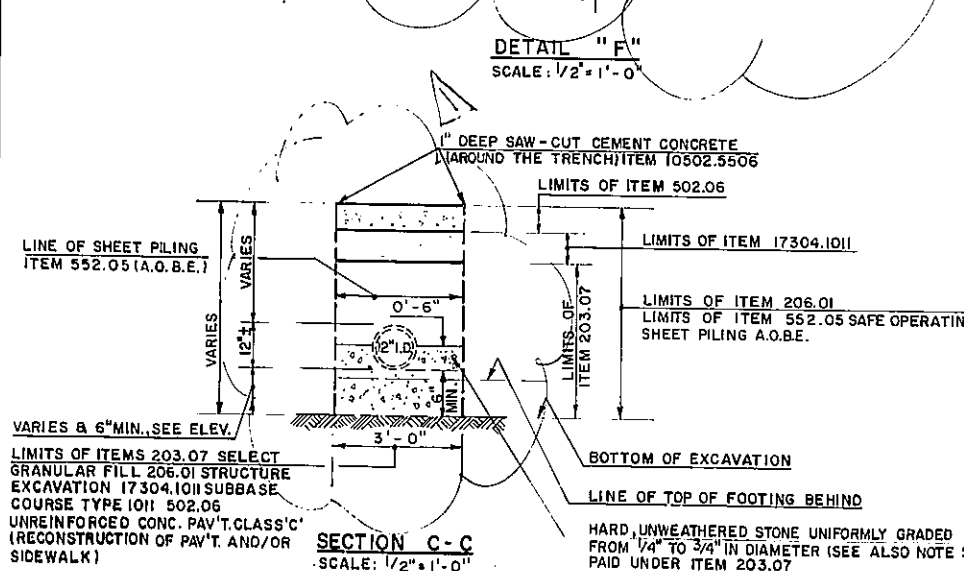
SECTION B-B
SCALE: 1/2" = 1'-0"



DETAIL "E" DOWNSPOUT FASTENER DETAIL
N.T.S.



DETAIL "F"
SCALE: 1/2" = 1'-0"



SECTION C-C
SCALE: 1/2" = 1'-0"

PIER	LOCATION	ELEVATIONS				DIMENSIONS	
		A	B	C	D	E	F
3-3		34.50	34.00	27.40	32.00	18.00	16.00
3-4		35.00	34.50	28.30	31.40	14.00*	12.00*
3-6		37.00	36.50	29.40	28.30	18.00	18.00
3-8		37.30	36.80	30.40	29.10	18.00	11.50
3-9	E. COL.	37.50	37.00	30.60	33.50	13.00	13.50
3-11	SB. E. COL.	38.50	38.00	30.20	25.70	15.00	10.50
	NB. W. COL.	38.50	38.00	-	32.00	12.00	-
	NB. E. COL.	-	38.00	-	31.00	12.00	-
3-14	SB. W. COL.	44.50	44.00	37.50	28.00	14.00	8.50
	NB. W. COL.	44.50	44.00	-	27.60	14.50	-
3-17	SB. W. COL.	50.00	49.50	40.80	40.00	12.00	14.00
	RAMP 'M' COL.	50.00	49.50	-	38.70	12.00	-
3-20	RAMP 'M'	50.00	49.50	44.40	41.00	16.00	15.00
	SB. W. COL.	50.00	49.50	44.40	41.00	17.00	15.00
3-22	RAMP 'M'	52.50	52.00	46.50	43.00	14.00	11.00
3-23	RAMP 'M'	53.50	53.00	46.80	41.00	14.00	7.00
	CT. COL.	53.50	53.00	47.31	41.00	17.00	16.00
3-26	RAMP 'M'	-	54.30	50.00	52.00	11.00	4.50
	CT. COL.	-	-	-	47.50	18.00	-
	E. COL.	56.80	56.30	50.20	23.00	15.00	8.50
3-28	SB. E. COL.	-	53.00	47.00	50.50	15.00	11.50
	NB. W. COL.	-	54.50	49.80	52.00	15.00	17.50
3-29	RAMP 'N'	54.00	54.00	46.50	33.00	17.00	8.50

1. * DIMENSIONS GIVEN PARALLEL TO L OF PIER . ALL OTHER DIMENSIONS E AND F ARE GIVEN ON THE DIRECTION OF STA. LINE OR THE FOOTING SIDE PARALLEL TO IT.
2. ELEVATIONS 'A' AND 'B' GIVEN AT COLUMN. WHEN BOTH EL. 'A' AND 'B' ARE GIVEN EL. 'B' WAS ASSUMED 6" LOWER. WHEN EL. 'A' IS NOT GIVEN, EL. 'B' REPRESENTS TOP OF PAVEMENT OR SOIL.(SEE DRAINAGE PLANS).
3. ALL ELEVATIONS AND DIMENSIONS SHOWN IN THE TABLE ARE ESTIMATED USING THE "AS BUILT" DRAWINGS AND THE CONTRACTOR SHALL CHECK THEM IN THE FIELD BEFORE STARTING CONSTRUCTION.
4. STANDARD DEPTH OF FIELD INLET (3'-0") TO BE ADJUSTED IN AREAS OF SHALLOW FOOTINGS.

5- SEE "SEWER DESIGN STANDARDS" BOOK
OF N.Y.C.D. E.P. BUREAU OF SEWERS,
PAGE 47 FOR 12" D.I.P. INSTALLATION,
MATERIALS AND JOINTS, AND PAGE 29
FOR HOOD IN CATCH BASINS.

AS – BUILT REVISIONS

1. Revised Detail

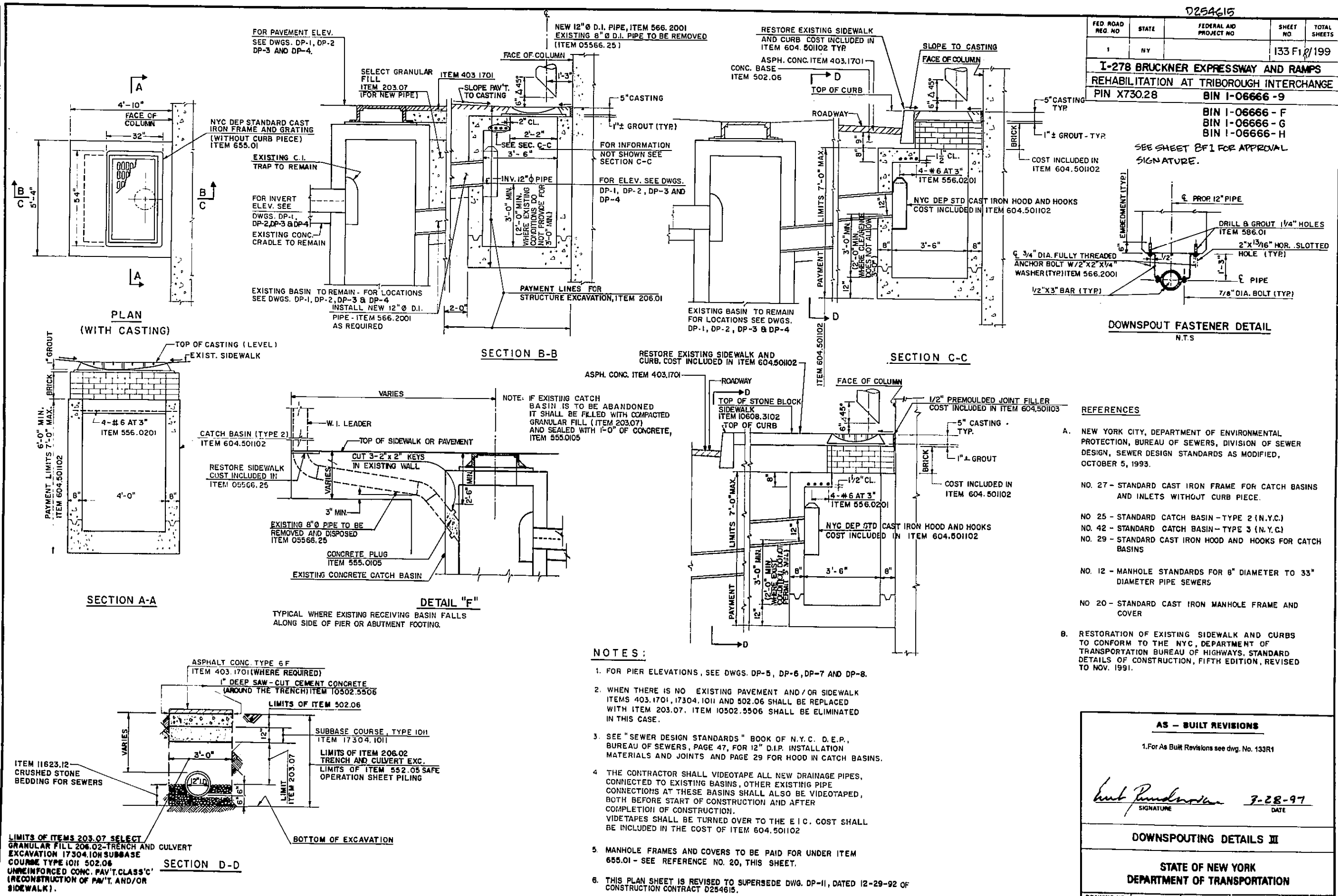
Mark Punderson
SIGNATURE

3-28-97
DATE

DOWNSPOUTING DETAILS III

STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING NO. DP-11	SCALE AS SHOWN	DATE 12-29-92	REGION
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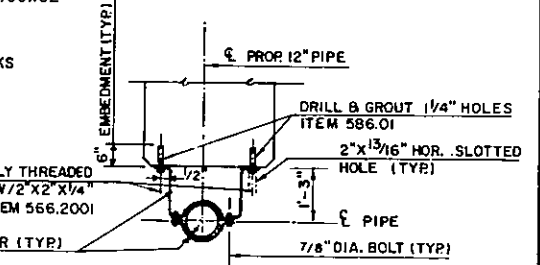


FED ROAD REG. NO	STATE	FEDERAL AND PROJECT NO	SHEET NO	TOTAL SHEETS
1	NY		133 F1	199

I-278 BRUCKNER EXPRESSWAY AND RAMPS	
REHABILITATION AT TRIBOROUGH INTERCHANGE	
PIN X73028	BIN I-06666 -9

OUT-TYP. BIN 1-06666 - F
BIN 1-06666 - G
BIN 1-06666 - H

SEE SHEET 8F1 FOR APPROVAL
SIGNATURE.



DOWNSPOUT FASTENER DETAIL
N.T.S.

REFERENCES

- NEW YORK CITY, DEPARTMENT OF ENVIRONMENTAL PROTECTION, BUREAU OF SEWERS, DIVISION OF SEWER DESIGN, SEWER DESIGN STANDARDS AS MODIFIED, OCTOBER 5, 1993.
- NO. 27 - STANDARD CAST IRON FRAME FOR CATCH BASINS AND INLETS WITHOUT CURB PIECE.
- NO 25 - STANDARD CATCH BASIN - TYPE 2 (N.Y.C.)
- NO. 42 - STANDARD CATCH BASIN - TYPE 3 (N.Y.C.)
- NO. 29 - STANDARD CAST IRON HOOD AND HOOKS FOR CATCH BASINS
- NO. 12 - MANHOLE STANDARDS FOR 6" DIAMETER TO 33" DIAMETER PIPE SEWERS
- NO 20 - STANDARD CAST IRON MANHOLE FRAME AND COVER
- RESTORATION OF EXISTING SIDEWALK AND CURBS TO CONFORM TO THE NYC, DEPARTMENT OF TRANSPORTATION BUREAU OF HIGHWAYS, STANDARD DETAILS OF CONSTRUCTION, FIFTH EDITION, REVISED TO NOV. 1991.

AS - BUILT REVISIONS

1. For As Built Revisions see dwg. No. 133R1

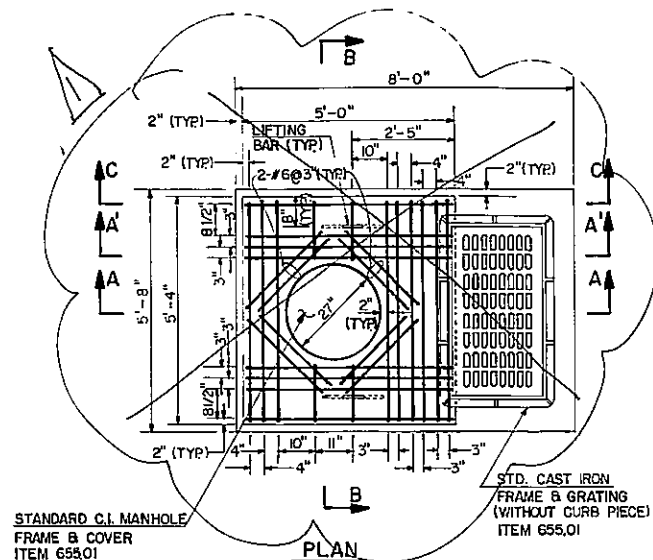
Ant Pundarik 7-28-97
SIGNATURE DATE

DOWNSPROUTING DETAILS III

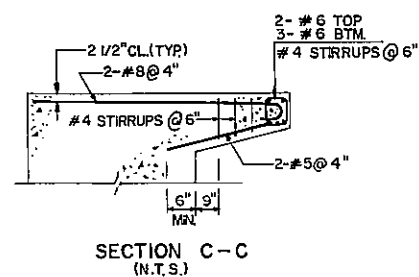
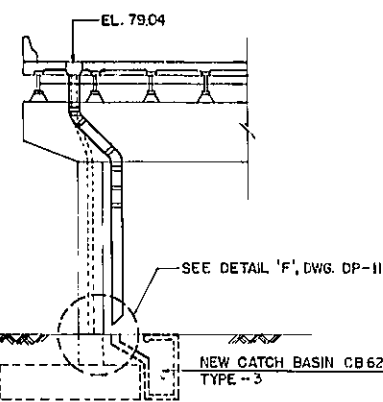
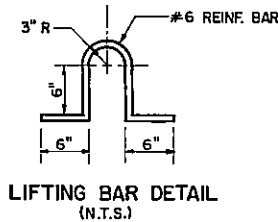
STATE OF NEW YORK
DEPARTMENT OF TRANSPORTATION

DRAWING NO DP-11	SCALE 1/2" = 1'-0"	DATE 8-29-1994	REGION 11
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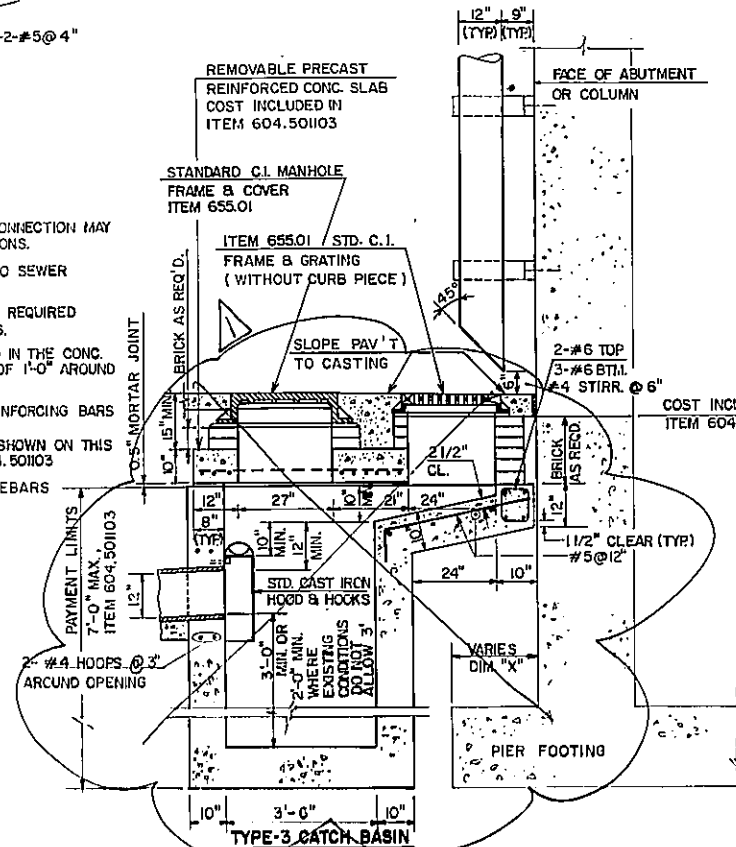
DATE 7-13-1994
D.K.
CHECKED BY
E.S.
DRAFTED BY
D.K.
CHECKED BY
H.L.
ESTIMATED BY
H.L.
CHECKED BY
J.S.
DESIGNED BY
R.L.A.
IN CHARGE OF
BLAUVELT INTERGRAPH SYSTEM
WASHOFFORDER



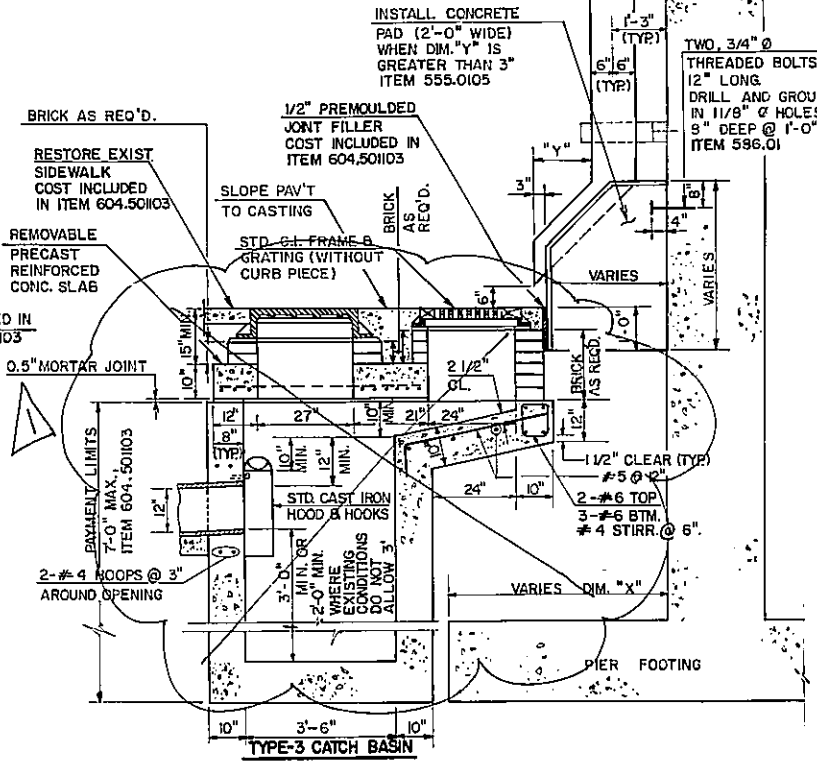
NEW CATCH BASIN - TYPE 3
SCALE: 1/2" = 1'-0"



NOTES:
LOCATION AND ANGLE OF BASIN CONNECTION MAY BE VARIED TO SUIT FIELD CONDITIONS.
THE MINIMUM DROP FROM BASIN TO SEWER SHALL BE 6".
KEYED CONSTRUCTION JOINTS ARE REQUIRED BETWEEN ANY SUCCESSIVE POURS.
EXPANSION JOINTS ARE REQUIRED IN THE CONC. SIDEWALK AREA AT A DISTANCE OF 1'-0" AROUND THE PERIMETER OF THE BASIN.
ALL REINFORCEMENT IS #6 REINFORCING BARS UNLESS OTHERWISE SHOWN.
COST OF ALL REINFORCEMENT SHOWN ON THIS SHEET IS INCLUDED IN ITEM 604.50103
CONCRETE IS TO BE CLASS 40 REBARS GRADE 60.

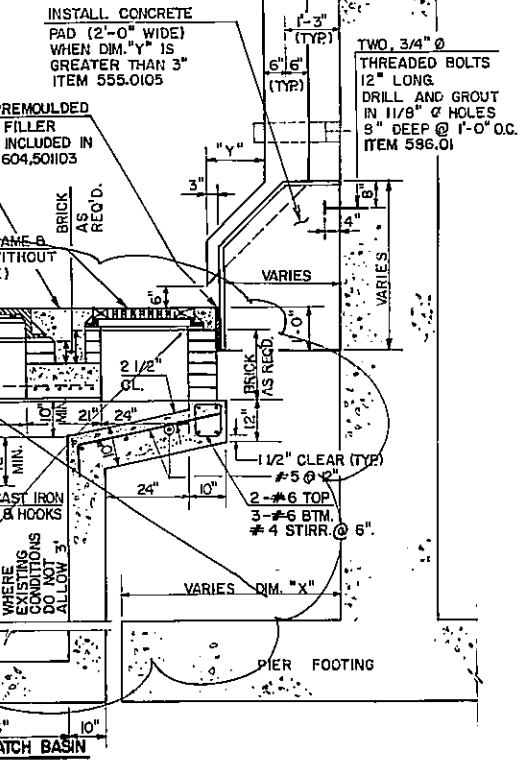


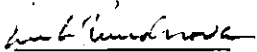
SECTION A-A
TYPICAL DETAIL FOR LOCATIONS WHERE
DIM. "X" IS 34" OR LESS
SCALE: 1/2" = 1'-0"



SECTION A-A'
TYPICAL DETAIL FOR LOCATIONS WHERE
DIM. "X" IS GREATER THAN 34"
SCALE: 1/2" = 1'-0"

FED. ROAD REG. NO.	STATE	FEDERAL AID PROJECT NO.	SHEET NO.	TOTAL SHEETS
1	N.Y.		133 F2/199	
I-278 BRUCKNER EXPRESSWAY AND RAMPS REHABILITATION AT SHERIDAN INTERCHANGE				
PIN X730.28			BIN 1-06666-9	
SEE SHEET 8F1 FOR APPROVAL SIGNATURE.			BIN 1-06666-F BIN 1-06666-G BIN 1-06666-H	
THIS SHEET SUPPLEMENTS SHEET NUMBER 133F1.			FACE OF EXISTING ABUTMENT OR COLUMN	

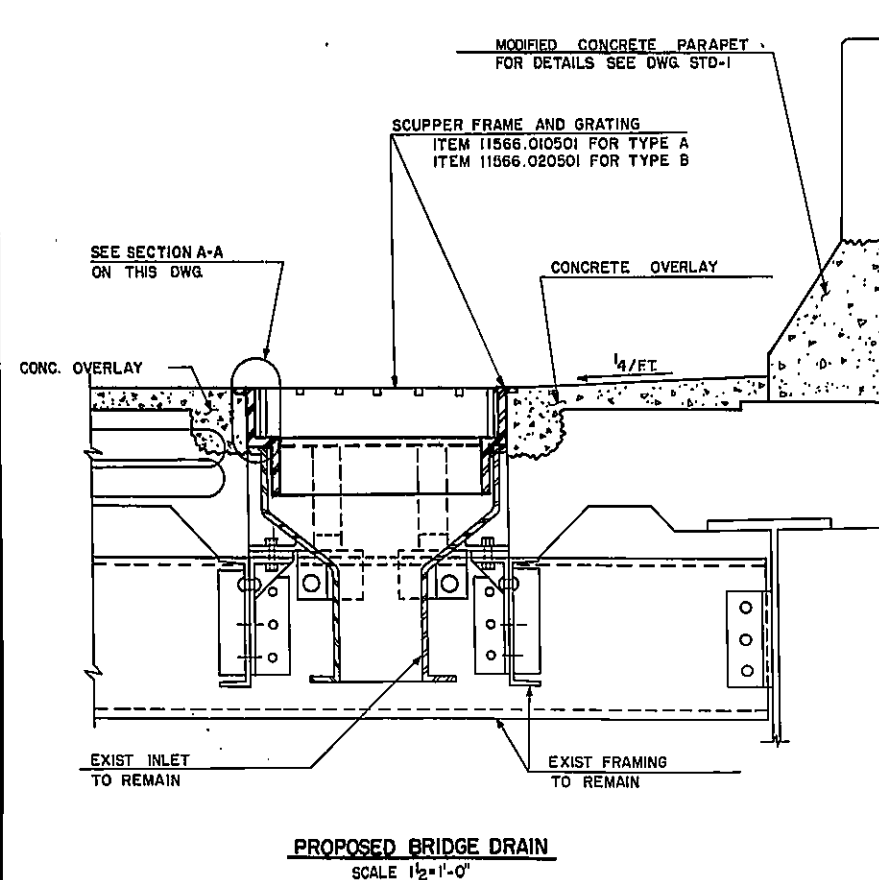
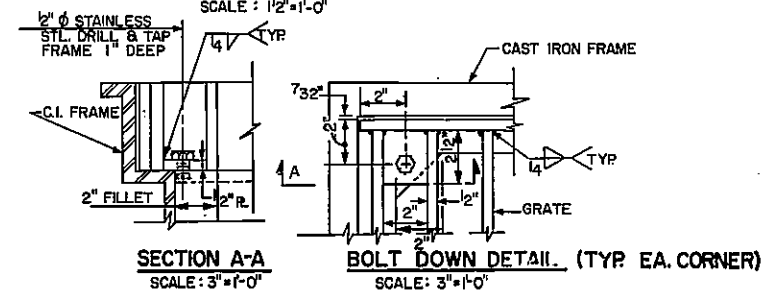
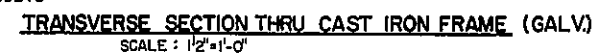
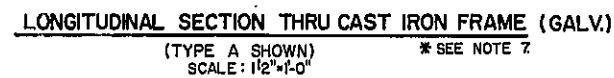
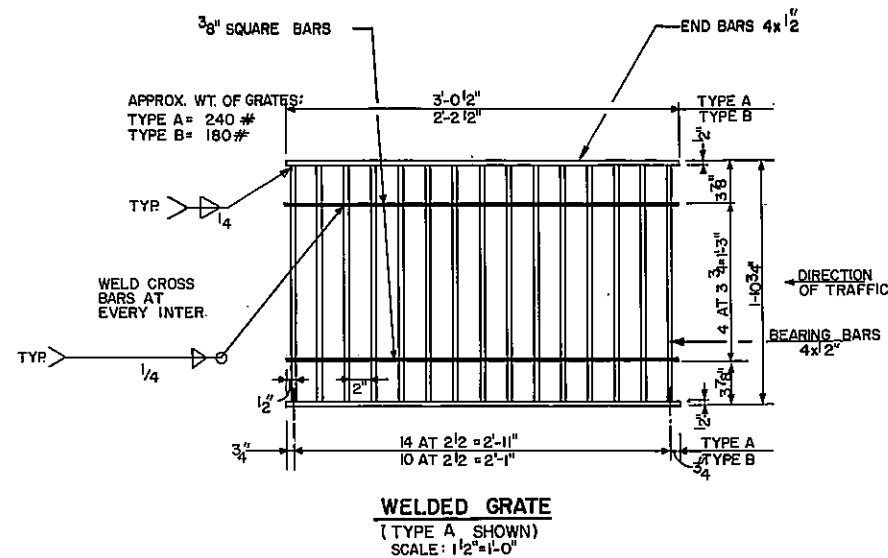


<u>AS - BUILT REVISIONS</u>			
1. Work Deleted From Contract			
<u></u>		<u>8-27-97</u>	
SIGNATURE		DATE	
DOWNSPOUTING DETAILS <u>IV</u>			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
DRAWING NO. DP-12	SCALE AS SHOWN	DATE 8-29-1994	REGION 11

1-278 BRUCKNER EXPRESSWAY AND RAMPS		
REHABILITATION AT SHERIDAN INTERCHANGE		
PIN X730.28	BIN	1-06666-9
	BIN	1-06666-F
	BIN	1-06666-G
	BIN	1-06666-H

1. FRAMES AND GRATES TO BE HOT-DIP GALVANIZED IN ACCORDANCE WITH SECTION 719-01.
2. MATERIALS SHALL CONFORM TO ASTM A36 STEEL FOR GRATING, AND ASTM A48, CLASS 30 FOR THE CAST IRON FRAME.
3. GRATINGS ARE DESIGNED FOR 16,000 LBS. WHEEL LOAD (1200 LOADINGS).
4. GRATE SHALL BE BOLTED TO THE CAST IRON FRAME; SEE BOLT DOWN DETAIL. THE GRATE SHALL BE FASTENED WITH FOUR 1/2" DIA. STAINLESS STEEL BOLTS LOCATED AT THE CORNERS.
5. THE DETAILS SHOWN ON THIS DRAWING ARE DESIGNED FOR AN OVERLAY THICKNESS OF 1 1/2". IF THE OVERLAY THICKNESS IS 2", THEN THE DIMENSION "C" (SEE TRANSVERSE AND LONGITUDINAL SECTIONS) SHALL BE 1 1/8" AND DIMENSIONS "A" AND "B" SHALL BE AS FOLLOWS:

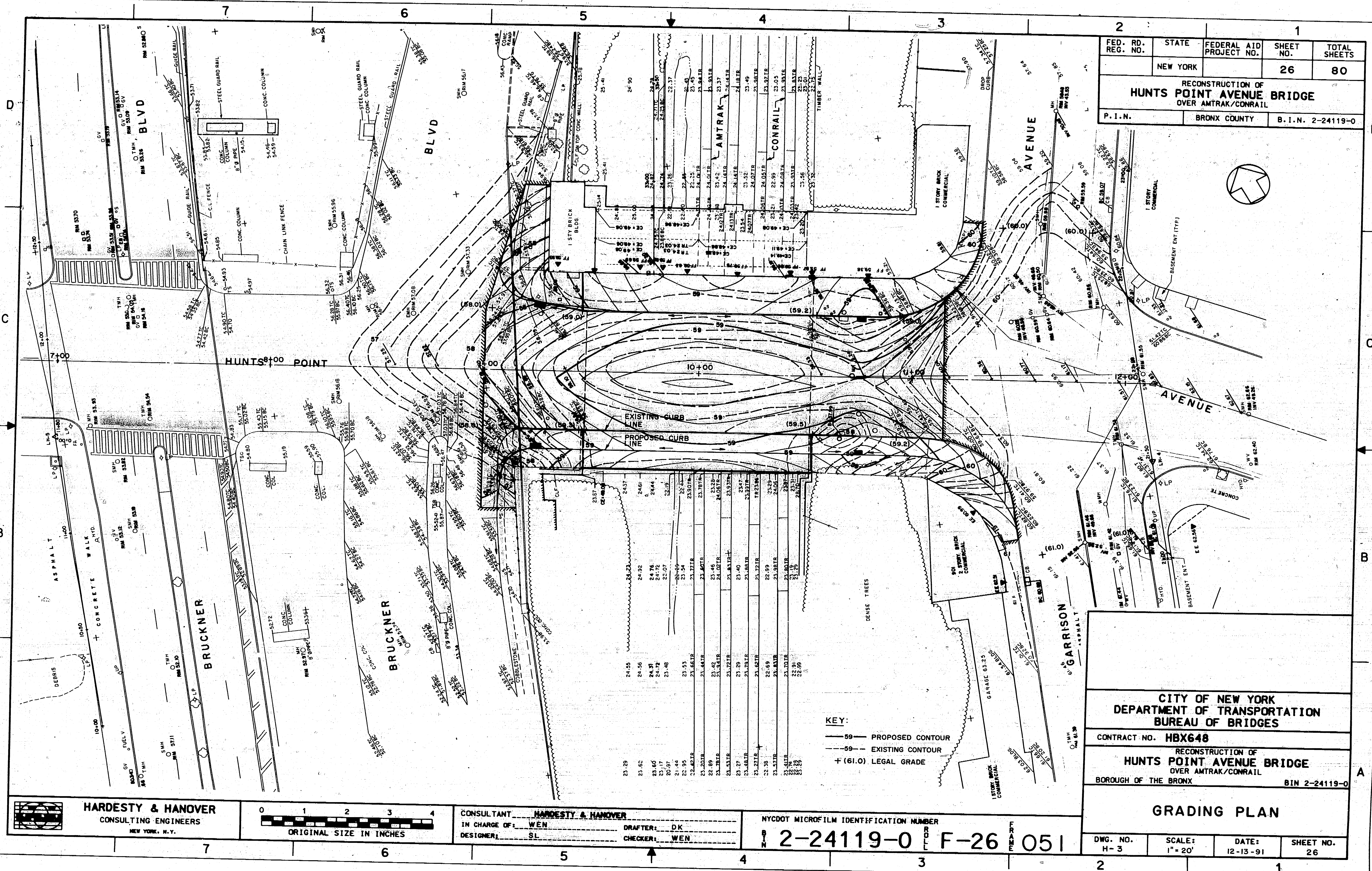
OVERLAY THICKNESS: 2" b = 4 7/8"
 t = 1 1/8"
6. UNLESS OTHERWISE SPECIFIED, THE WORK SHOWN ON THIS DRAWING SHALL BE PAID UNDER ITEM 11566.010501 OR 11566.020501-REPLACEMENT OF SCUPPER FRAME AND GRATING, TYPE A OR TYPE B.



<u>AS - BUILT REVISIONS</u>			
_____ SIGNATURE		_____ DATE	
BRIDGE DRAIN DETAILS			
STATE OF NEW YORK DEPARTMENT OF TRANSPORTATION			
DRAWING NO. DP-12	SCALE AS SHOWN	DATE 12-29-92	REGION II

Appendix H – As-Built Record for Contract HBX648

24 X



CERTIFIED COPY OF THE RECORD OF
N.Y.C. - D.O.T.
BUREAU OF BRIDGE DESIGN

L.M.G. INTL., INC. 2-24119-0 F-26 051

Appendix I – Changes in Pervious

Bruckner Boulevard - Change in Pervious		
PLAN SHEET	SQUARE FOOTAGE ADDED (REMOVED)	DESCRIPTION
RP-01	200	Median - No Change, Added 4 Tree Pits
RP-02	856	Added Landscape Areas, Added 1 Tree Pit
RP-03	4956	Added Landscape Areas, Removed 8 Tree Pits, Added 7 Tree Pit
RP-04	2388	Added Landscape Areas, Shifted Pervious Median

Net Pervious Gain (SF)	8400
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Appendix J – Roadway Plans

FILE NAME = p:\w\...\\X73165.Hunts Point Truck Access - Contract 3\CAD\01 AECOM\Civil\X73165.PRS.GNP_201-AECOM.dgn
DATE/TIME = Friday, May 06, 2022 06:34:46 PM
USER = uma.lakshman

PROJECT MANAGER

CHECK

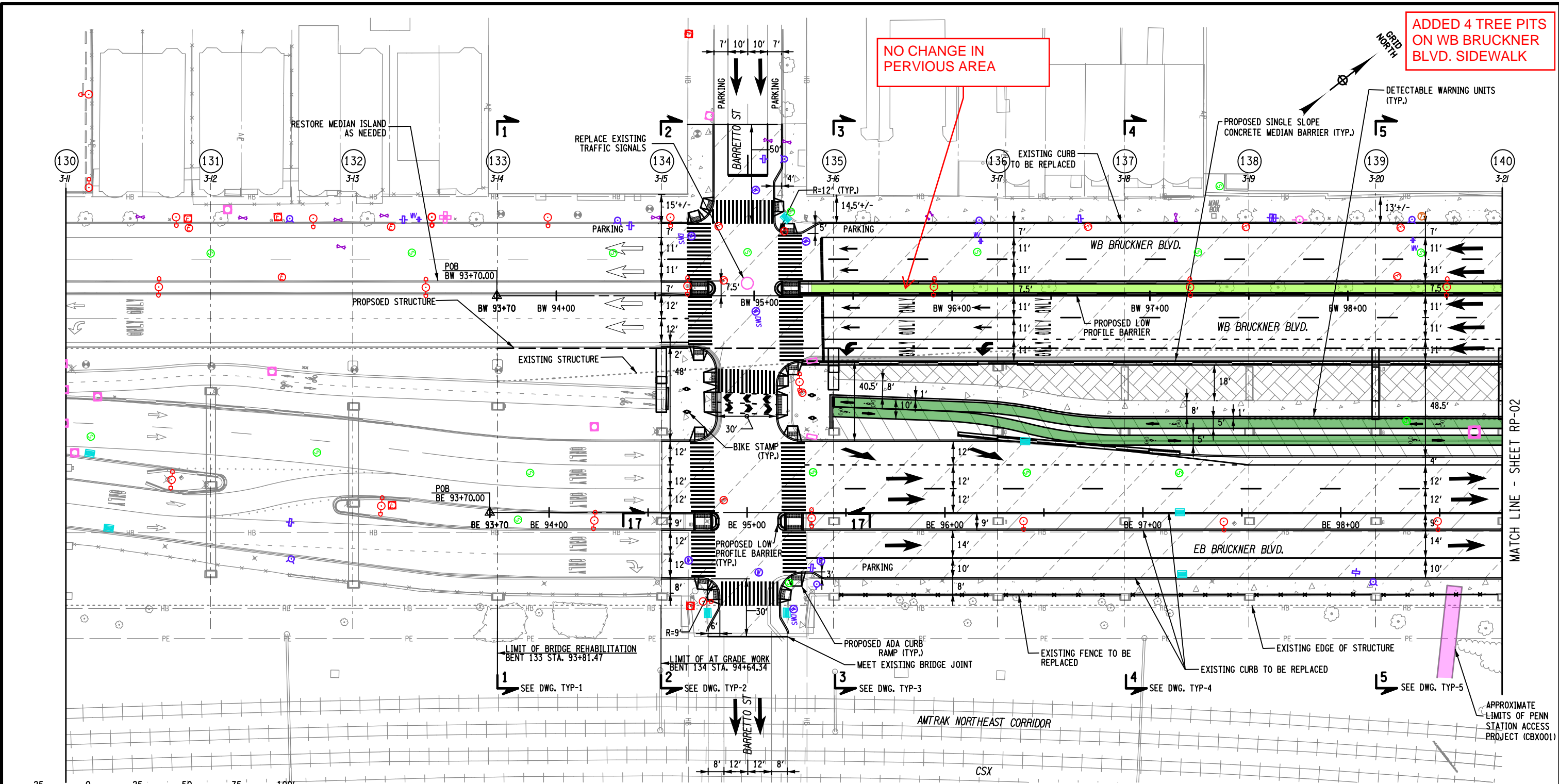
DRAFTING

CHECK

DESIGN

JOB MANAGER

DESIGN SUPERVISOR



NOTES:

1. THE DIRECTIVE ELEMENTS OF THE ROADWAY PLANS INCLUDE: INTERSECTION CONFIGURATIONS, LANE WIDTHS, CURB AND BARRIER LOCATIONS, PAVEMENT RECONSTRUCTION LIMITS, PAVEMENT REHABILITATION LIMITS, MEDIAN RECONSTRUCTION, SIDEWALK RECONSTRUCTION, FENCING, REMEDIATION WITHIN AMTRAK ROW, AND THE ALIGNMENT AND WIDTHS OF THE PEDESTRIAN PATH, BICYCLE PATH, AND SHARED USE PATH. THE DESIGN BUILDER IS RESPONSIBLE FOR ALL ENGINEERING AND ANALYSIS TO ACHIEVE THE DIRECTIVE RESULTS IN ACCORDANCE WITH PROJECT REQUIREMENTS.
2. THE CONTRACTOR SHALL USE SINGLE SLOPE CONCRETE MEDIAN BARRIER AS SHOWN IN DRAWINGS. SINGLE SLOPE CONCRETE HALF SECTION BARRIERS MAY BE USED AT COLUMNS AND WHERE BACKUP POSTS WILL NOT IMPACT PEDESTRIANS AND CYCLISTS.

AS-BUILT REVISIONS
DESCRIPTION OF ALTERATIONS:

HUNTS POINT INTERSTATE ACCESS IMPROVEMENT PROJECT	PIN X731.65
CONTRACT 3	
FROM BARRETTO STREET TO WHITLOCK AVE. AND SHERIDAN BLVD.	
COUNTY: BRONX	REGION: 11

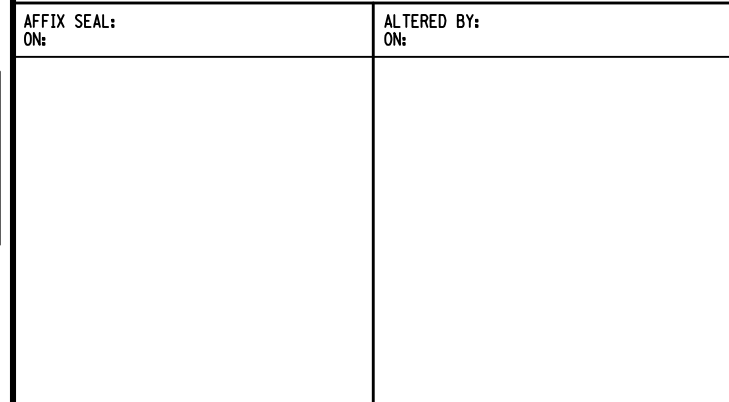
LEGEND:

(43)	- NEW BENT NUMBER	- EXISTING EDGE OF STRUCTURE	- PROPOSED EDGE OF STRUCTURE
2-1	- OLD BENT NUMBER	- WORK DONE BY OTHERS	- PROPOSED PAVERS SEE URBAN DESIGN PLANS
	- PROPOSED CONCRETE SIDEWALK / MEDIAN	- CLEARING, GRUBBING AND PLACE GRAVEL	- PROPOSED LANDSCAPING AREA SEE URBAN DESIGN PLANS
	- PROPOSED ASPHALT MEDIAN	- PROPOSED MILLING AND RESURFACING	- PROPOSED COLOR ASPHALT BICYCLE PATH

AFFIX SEAL: ON:	ALTERED BY: ON:

ALL DIMENSIONS IN FT UNLESS OTHERWISE NOTED	CONTRACT NUMBER D900055
DIRECTIVE PLANS ROADWAY PLANS - 01	DRAWING NO. RP-01 SHEET NO.

NO CHANGE IN
PERVIOUS AREA

Department of
Transportation





No Change

Department of
Transportation



- PROPOSED MILLING
AND RESURFACING

Department of
Transportation